

EPA Registration Number 84229-31

PROCESSING REQUEST

Reg # 84229-31 Decision # 505046

Description: cond notes

Electronic Label & Letter
(see PPLS):

OR

Non Electronic
Label & Letter
(Scanning required):

☐ Dated:

☐ Dated:

Only one label type should be selected

Other Materials Sent (see jacket):

☐ New CSF(s) Dated:

☒ Other:

10-5-15

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer:

Bonzo Djafer

Division:

RD-PHB

Phone:

305-7269

Date:

10-5-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

October 5, 2015

Ms. Ann M. Tillman
Agent for Tide International, USA, Inc.
c/o Pyxis Regulatory Consulting, Inc.
4110 136th St. NW
Gig Harbor, WA 98332

Subject: Condition of Registration – Storage Stability and Corrosion Characteristics Data
Product Name: Tide Hexazinone Technical
EPA Registration Number: 84229-31
Application Date: 4-15-15
Decision Number: 505046

Dear Ms. Tillman:

The Agency has reviewed the study submitted to fulfill the conditional data requirements referred to above, in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act. A copy of the review is enclosed. The study has been classified as acceptable. The conditions of registration are considered fulfilled.

If you have any questions, please contact Banza Djapao at 703-305-7269 or by email at djapao.banza@epa.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read "Heather A. Garvie".

Heather A. Garvie, Product Manager 24
Fungicide Herbicide Branch (7505P)
Office of Pesticide Programs

Enclosure: Product Chemistry review; DP# 427408 dated 9-29-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION DIVISION (7505P)

~~This Document Contains Confidential Information~~

DATE OUT: September 29, 2015

SUBJECT: STORAGE STABILITY (830.6317) & CORROSION CHARACTERISTICS
(830.6320) REVIEW
ACCELERATED STUDY []; ONE YEAR STUDY [X];
OVER 1 YEAR STUDY []
MP [] EP [] EUP [X]
DP BARCODE No.: 427408 REG. No.: 84229-31
DECISION No.: 505046 MRID No(s): 496160-01
PRODUCT NAME: TIDE HEXAZINONE TECHNICAL
COMPANY: TIDE INTERNATIONAL, USA, INC.

FROM: Linda Mascall / Bruce Kitchens *Linda Mascall*
Product Chemistry Team *Bruce Kitchens 9/29/15*
Chemistry, Inerts and Toxicology Assessment Branch (CITAB)/RD (7505P)

TO: Banza Djapao / Heather Garvie, RM 24
Fungicide and Herbicide Branch / RD (7505P)

I. CONCLUSIONS:

STORAGE STABILITY (830.6317):
[X] ACCEPTABLE
[] UNACCEPTABLE*
[] UPGRADEABLE*

40CFR158.310 DATA REQUIREMENT: [X] SATISFIED [] NOT SATISFIED

CORROSION CHARACTERISTICS (830.6320):
[X] ACCEPTABLE
[] UNACCEPTABLE*
[] UPGRADEABLE*

40CFR158.310 DATA REQUIREMENT: [X] SATISFIED [] NOT SATISFIED

* If unacceptable or upgradeable describe the deficiency and provide recommendations

Comments & Recommendations:

The various parameters tested in the study at the end of storage period (21.0 to 28.2 °C) for the 1st year were not significantly different from the results obtained before storage. The properties of technical compound were not adversely affected by storage at ambient temperature. For corrosion characteristics like "Perforation", "Darkening", "rust at the seam" were not observed on packaging material due to contact with test article.

From the results obtained in the study, it is concluded that *Hexazinone Technical* was found to be stable and did not show any corrosion with packaging material at ambient temperature (27 ± 9 °C) for One year storage.

II. STUDY SUMMARY

A. STUDY CONDUCTED UNDER US GLP/OECD GUIDELINES

☒ Yes

☐ No

B. PRODUCT INFORMATION

Active ingredient(s): Hexazinone

Label claim(s) Nominal concentration(s) (%): 99.2

Initial concentration(s) of the AI(s) (%) used in the study: 98.58

Lower certified limits (%) based on AI % in the study: 96.2426

C. EXPERIMENTAL PARAMETERS

Temperature: ☐ Freezer; Room ☐; Warehouse ☒; 54°C ☐; Other ☐

Humidity: Indicate % (if provided)

Duration of study: ☒ 1 year; ☐ over 1 year

Type of container: ☐ Glass; ☐ Metal; ☒ HDPE; ☐ Fluorinated HDPE; ☐ Other

Analysis at intervals: ☒ 0 (initial);

☒ 3 months; ☒ 6 months

☐ 9 months; ☒ 12 months

☐ Over 12 months

D. ANALYTICAL METHOD

| Method | DETECTOR |
|--|--|
| Gas chromatography (GC) | <input type="checkbox"/> FID (Flame Ionization Detector) <input type="checkbox"/> ECD (Electron Capture Detector) <input type="checkbox"/> N/P (Nitrogen/Phosphorous Detector) <input type="checkbox"/> Other |
| Capillary Gas chromatography (CGC) | <input type="checkbox"/> FID (Flame Ionization Detector) <input type="checkbox"/> ECD (Electron Capture Detector) <input type="checkbox"/> N/P (Nitrogen/Phosphorous Detector) <input type="checkbox"/> Other |
| High Pressure Liquid chromatography (HPLC) | <input checked="" type="checkbox"/> UV/VIS (nm) - 254 (nm) <input type="checkbox"/> RI (Refractive Index) <input type="checkbox"/> Other |
| GC-MS / LC-MS | Specify |
| Other | Specify |

E. RESULTS

Active Ingredient Content in Test Article

| Storage Period (Months) | Sample No. | Actual Conc. of test article (ppm) | Active Ingredient content (% w/w) | Average Active Ingredient content (% w/w) |
|-------------------------|------------|------------------------------------|-----------------------------------|---|
| 0 (Before Storage) | 1 | 86.4 | 98.33 | 98.58 |
| | 2 | 90.4 | 98.82 | |
| 3 | 1 | 88.0 | 98.81 | 98.73 |
| | 2 | 85.2 | 98.64 | |
| 6 | 1 | 83.0 | 98.94 | 99.25 |
| | 2 | 82.6 | 99.57 | |
| 12 | 1 | 86.6 | 98.65 | 99.13 |
| | 2 | 84.4 | 99.60 | |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

April 29, 2015

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

PYXIS REGULATORY CONSULTING, INC
TIDE INTERNATIONAL, USA, INC.
4110 136TH ST. NW
GIG HARBOR, WA 98332

Report of Analysis for Compliance with PR Notice 11-03

Thank you for your submittal of 16-APR-15. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 11-03. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

49616000

April 15, 2015

COURIER DELIVERY

Shaja Joyner (PM 20)
Document Processing Desk
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Dear Ms. Joyner,

RE: Tide International USA, Inc.
Tide Hexazinone Technical (EPA Reg. No. 84229-31)
Submission of Final Report for Storage Stability and Corrosion Characteristics

On behalf of Tide International USA, Inc., I am submitting the final report from storage stability and corrosion characteristics study with Tide Hexazinone Technical.

The following documents are enclosed:

1. Application for Pesticide Registration (EPA Form 8570-1)
2. Letter of Authorization
3. Product Specific Data (3 copies).

49616001

| | | |
|----------|-----------------------|--|
| Volume 1 | 830.6317, 830.6320 | Karambelkar, N. P. Determination of 1 Year Storage Stability and Corrosion Characteristics of Hexazinone Technical. |
|----------|-----------------------|--|

I trust you will find this submission complete. However, please feel free to contact me if you have any questions or need any additional information.

Sincerely,



Ann M. Tillman

Enclosures



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

| | | |
|---|--|--|
| 1. Company/Product Number 84229-31 | 2. EPA Product Manager S Joyner | 3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name) Tide International USA, Inc./Tide Hexazinone Technical | PM# 20 | |
| 5. Name and Address of Applicant (Include ZIP Code) Tide International USA, Inc. c/o Pyxis Regulatory Consulting Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address | 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____ | |

Section - II

| | |
|--|--|
| <input type="checkbox"/> Amendment - Explain below. | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input type="checkbox"/> "Me Too" Application. |
| <input type="checkbox"/> Notification - Explain below. | <input checked="" type="checkbox"/> Other - Explain below. |

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of final report for storage stability and corrosion characteristics.

Section - III

| | | | | | |
|--|--|---|-------------------|--|-------------------|
| 1. Material This Product Will Be Packaged In: | | | | 2. Type of Container | |
| Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | <input type="checkbox"/> Metal | |
| * Certification must be submitted | | If "Yes" Unit Packaging wgt. | No. per container | If "Yes" Package wgt | No. per container |
| | | | | <input checked="" type="checkbox"/> Other (Specify) polyethylene bag | |
| 3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container | | 4. Size(s) Retail Container 5, 10, 20 lbs. | | 5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product | |
| 6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled | | <input type="checkbox"/> Other _____ | | | |

Section - IV

| | | | | | |
|--|--|------------------------|--|---|---|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) | | | | | |
| Name Pyxis Regulatory Consulting, Inc. | | Title Consultant | | Telephone No. (Include Area Code) (253) 853-7369 | |
| Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. | | | | | 6. Date Application Received (Stamped) |
| 2. Signature | | 3. Title Consultant | | | |
| 4. Typed Name Ann M. Tillman | | 5. Date 4/15/15 | | | |

Administrative Materials



Tide International (USA) Inc.

21 Hubble, Irvine, CA 92618, USA. Phone: 949-679-3535 Fax: 949-679-3538

December 28, 2009

To Whom It May Concern:

RE: Letter of Authorization

Dear Sir or Madam:

Please let this letter serve to confirm that Janelle Kay and Michael Kellogg of Pyxis Regulatory Consulting, Inc. are authorized to act as agent for Tide International USA, Inc. (EPA Company Number 84229), before the U.S. Environmental Protection Agency, California Department of Pesticide Regulation Pesticide Registration Branch and other state governmental agencies in all matters regarding our pesticide registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. § 136 et seq. and state law.

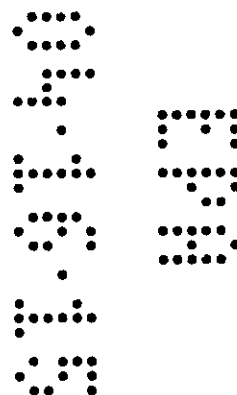
If you have any questions, please do not hesitate to contact me.

Sincerely,

Der-I Wang, Ph.D.

Vice President

cc: Pyxis Regulatory Consulting, Inc.



SS/CC
data**Memorandum**Date: 5/8/15To: PM 24, Regulatory Manager

From: Information Services Branch, ITRMD

Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.

We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.

If you have any questions about this process, please contact Teresa Downs (305-5363).

This is a: ☒ fully accepted submission
☐ partially accepted submission
☐ rejected submission

PROCESSING REQUEST

Reg #84229-31

Decision #502671

Description:

Electronic Label & Letter
(see PPLS):

OR

Non Electronic
Label & Letter
(Scanning required):

☐ Dated: 5-6-15

☐ Dated:

Only one label type should be selected

Other Materials Sent (see jacket):

☐ New CSF(s) Dated:

☐ Other:

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Erik Kraft

Division: RD

Phone: 703-308-9358

Date: 5-6-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 6, 2015

Nicole Cochran
Agent
Pyxis Regulatory Consulting, Inc.
4110 136th St. NW
Gig Harbor, WA 98332

Subject: Label Notification per PRN 2007-4 – Revision Container Handling
Product Name: Tide Hexazinone Technical
EPA Registration Number: 84229-31
Application Date: 3-13-15
Decision Number: 502671

Dear Ms. Cochran:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 2007-4 and finds that the action requested falls within the scope of PRN-2007-4.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers. The code may appear either on the label (and can be added by non-notification via PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact Erik Kraft by phone at 703-308-9358, or via email at kraft.erik@epa.gov.

Sincerely,

Heather Garvie, Product Manager 24
Fungicide and Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

NOTIFICATION

84229-31

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

05/06/2015

Tide Hexazinone Technical

[Alternate Brand Name: Tide Hexar Technical]

For Manufacturing Use Only

ACTIVE INGREDIENT:

Hexazinone: [3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4-(1H,3H)-dione]99.2%

OTHER INGREDIENTS:0.8%

TOTAL:100.0%

KEEP OUT OF REACH OF CHILDREN DANGER

| FIRST AID | |
|---|---|
| If in eyes: | <ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice. |
| If on skin or clothing: | <ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice. |
| If swallowed: | <ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person. |
| NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. | |
| HOT LINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information. | |

EPA Reg. No 84229-31

EPA Est. No: xxxx

Manufactured for:
Tide International USA, Inc.
21 Hubble
Irvine, CA 92618

Net Weight: XXXX lbs.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear: protective eyewear (goggles, face shield, or safety glasses), long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, ocean or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting of authority has been notified in writing prior to discharge. Do not discharge effluent containing this product in sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Only for use in the manufacture of herbicides for the following uses:

1. Terrestrial Non-food Crops: Agricultural fallow/idle land, Christmas tree plantations, industrial areas (outdoor), nonagricultural rights-of-way/fencerows/hedgerows, nonagricultural uncultivated areas/soils, bermudagrass/bahiagrass (non-residential areas only);
2. Terrestrial Feed Crops: Agricultural rights-of-way/fencerows/hedgerows, alfalfa, grass forage/fodder/hay, pastures, rangelands,
3. Terrestrial Food and Feed Crops: pineapple, sugarcane
4. Terrestrial Food Crops: blueberry
5. Forestry: conifer release, forest plantings (reforestation programs), forest trees
6. Uses for which EPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration.
7. Uses for experimental purposes that are in compliance with EPA registration for the formulated products.

Each formulator is responsible for obtaining EPA registration for their end-use product(s).

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

Pesticide Storage: Store in original container in a cool, dry place.

Pesticide Disposal: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling:

[Plastic bag]: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not burn, unless allowed by state and local ordinances.

[Fiber drum with liner]: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. If not emptied in this manner, the bag may be considered an acute hazardous waste and must be disposed of in accordance with local, state and federal regulations. When completely empty, offer for recycling if available. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

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CONDITIONS OF SALE AND LIMITATION OF WARRANTY

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Tide International USA, Inc. ("Tide"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Tide warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Tide, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, TIDE DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, TIDE, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF TIDE IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND

THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF TIDE, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT TIDE'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

EPA 20150313

Deleted:

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
Nicole@PyxisRC.com

March 13, 2015

COURIER DELIVERY

Shaja Joyner (PM 20)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-4501

RE: Tide International, USA, Inc. – Tide Hexazinone Technical (EPA Reg. No. 84229-31)
Notification of a Revision to the Container Handling Language per PRN 2007-4

Dear Ms. Joyner,

On behalf of Tide International, USA, Inc. please find the enclosed notification of revision to the container handling language per PRN 2007-4 for Tide Hexazinone Technical (EPA Reg. No. 84229-31). Tide is adding container handling instructions for plastic bags.

In support of this notification submission, we submit the following documents:

1. Completed Application for Registration (EPA Form 8570-1)
2. One (1) copy of the Tide Hexazinone Technical labeling with changes tracked
3. One (1) copy of the Tide Hexazinone Technical labeling with changes incorporated
4. Certification with Respect to Label Integrity
5. One (1) copy of the Tide Hexazinone Technical labeling on CD
6. Letter of Authorization

Please feel free to contact me by phone (253) 853-7369 or by email at Nicole@PyxisRC.com if you have any questions or need any additional information.

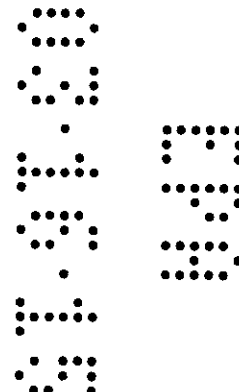
Sincerely,



Nicole Cochran

Enclosures

cc: A. Van Wagner, Tide International, USA, Inc.



| Explore Registrations | | | | |
|---------------------------------------|--|---|-----------------------------|-------------|
| Reg Number: 84229-31 | Reg. Type: Product Registration - Section 3 | Status: Conditionally Registered (01-Aug-2015) | <View Registration Details> | |
| Name: TIDE HEXAZINONE TEHNICAL | | | | |
| (No New Receipts) | | | | |
| S: | Submission Type | OPP Rec'd Date | Resubmission | Description |
| | | | | |

Decisions...

- Data Requirements
- D: Pending; 502671; 84229-31;332;NOTIFICATION
- 75-Day Letters
- S: 965565 3/16/2015; Notification; 84229
- D: Closed; 497021; 84229-31;332;NOTIFICATION
- D: Closed; 483382; 84229-31;R333;NEW PRO

S: **965565** Reg #: **84229-31**

Submission Type: **Notification**

Resubmission?: ☐ Yes ☒ No E-Sub #:

Decision #: **502671; 332;NOTIFICATION;**

Submitter Company: **TIDE INTERNATIONAL, USA, INC.**

Application Date: **13-Mar-2015**

OPP Received Date: **16-Mar-2015** Date Sent to Risk manager: **16-Mar-2015**

Studies Included?: ☐ Yes ☒ No Fast Track?: ☐ Yes ☒ No

Form A Signed?: ☐ Yes ☐ No ☒ None Date:

Form B Signed?: ☐ Yes ☐ No ☒ None Date:

Reviewer: **Balan, Aswathy**

Received DT: **16-Mar-2015** Editable Due DT:

Submission Due DT: **15-Apr-2015** Response: **0, 16-Mar-2015**

Priority Weight: Priority Points:

Comments: **PRN 2007-4 / revision to the container handling language**

MAR 25 2015

Receipt for Section 3

S: 965565

Milestone Email:

Regulatory Type: Product Registration - Section 3

Resubmission: ☐ Yes ☒ No

Application Type: Notification

Fee For Service: ☐ Yes ☒ No

Company: 84229 TIDE INTERNATIONAL, USA, INC.

Risk Manager: Registration Division, Risk Management Team 24

Product #: 84229-31 Product Name: TIDE HEXAZINONE TECHNICAL

Override#:

Me Too Section3: 352-399

Me Too Product Name: DUPONT HEXAZINONE TECHNICAL

Application Date: 13-Mar-2015

OPP Rec'd Date: 16-Mar-2015

Front End Date: 16-Mar-2015

Risk Manager Send Date: 16-Mar-2015

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

Label Notification per PR Notice 2007-4 to add container-handling instructions for plastic bags

Form A: ☐ Signature Date:

Form B: ☐ Signature Date:

New Ingredient Request Date:

New Ingredient Received Date:

Receipt Content

Des

Paper Label

Electronic Label

Print Letter

Enter More Information

Tracking



United States
Environmental Protection Agency
Washington, DC 20460

☐
☐
☒

Registration
Amendment
Other

OPP Identifier Number

Application for Pesticide - Section I

| | | |
|---|--|--|
| 1. Company/Product Number 84229-31 | 2. EPA Product Manager S. Joyner | 3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name) Tide International, USA, Inc. / Tide Hexazinone Technical | PM# 20 | |
| 5. Name and Address of Applicant (Include ZIP Code) Tide International, USA, Inc. c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address | 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____ | |

Section - II

| | |
|--|--|
| <input type="checkbox"/> Amendment - Explain below. | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input type="checkbox"/> "Me Too" Application. |
| <input checked="" type="checkbox"/> Notification - Explain below. | <input type="checkbox"/> Other - Explain below. |

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

| | | | | | |
|--|--|---|--------------------------------------|--|----------------------------------|
| 1. Material This Product Will Be Packaged In: | | | | 2. Type of Container | |
| Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | <input type="checkbox"/> Metal | |
| * Certification must be submitted | | | | <input checked="" type="checkbox"/> Plastic | |
| | | | | <input type="checkbox"/> Glass | |
| | | | | <input type="checkbox"/> Paper | lined fiber drum or plastic bags |
| | | | | <input checked="" type="checkbox"/> Other (Specify) | |
| 3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container | | 4. Size(s) Retail Container 33.07, 55.12, 200, 1102 lbs. | | 5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product | |
| 6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled | | | <input type="checkbox"/> Other _____ | | |

Section - IV

| | | | |
|---|--|---|--|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) | | | |
| Name Nicole Cochran | | Title Agent | |
| | | Telephone No. (Include Area Code) (253) 853-7369 | |
| Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. | | | 6. Date Application Received (Stamped) |
| 2. Signature | | 3. Title Agent | |
| 4. Typed Name Nicole Cochran | | 5. Date 3/13/15 | |
| | | | |

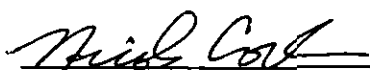
Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

| PROPOSED LABEL | | |
|--------------------|-----------------------|--|
| EPA Registration # | Date Submitted to EPA | Electronic file name |
| 84229-31 | March 13, 2015 | 084229-31.20150313.Tide Hexazinone Technical label.pdf |

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.


Signature

March 13, 2015

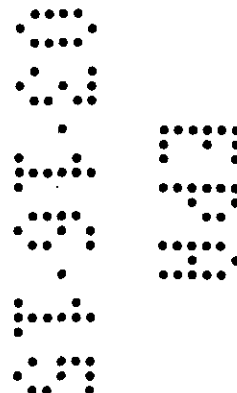
Date

Nicole Cochran

Name (typed)

Agent

Title



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 10, 2014

Nicole Cochran
Pyxis Regulatory Consulting, Inc.
4110 136th Street NW
Gig Harbor, WA 98332

Subject: Label Notification per PRN 98-10 – Add Alternate Brand Name
Product Name: Tide Hexazinone Technical
EPA Registration Number: 84229-31
Application Date: 10-30-14
Decision Number: 497021

Dear Ms. Cochran:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The alternate brand name "Tide Hexar Technical" has been added to the product record.

If you have any questions, you may contact Erik Kraft at 703-308-9358 or via email at Kraft.Erik@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Shaja Joyner".

Shaja Joyner, Product Manager 20
Fungicide and Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
Nicole@PyxisRC.com

October 30, 2014

COURIER DELIVERY

Kathryn Montague (PM 23)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-4501

497021

RE: Tide International, USA, Inc. – Tide Hexazinone Technical (EPA Reg. No. 84229-31)
Notification of an Alternate Brand Name per PRN 98-10

Dear Ms. Montague,

On behalf of Tide International, USA, Inc. please find the enclosed notification of an alternate brand name per PRN 98-10 for Tide Hexazinone Technical (EPA Reg. No. 84229-31). **The alternate brand name is "Tide Hexar Technical".**

In support of this notification submission, we submit the following documents:

1. Completed Application for Registration (EPA Form 8570-1)
2. One (1) copy of the Tide Hexar Technical labeling with changes tracked
3. One (1) copy of the Tide Hexar Technical labeling with changes incorporated
4. Certification with Respect to Label Integrity
5. One (1) copy of the Tide Hexar Technical labeling on CD
6. Letter of Authorization

Please feel free to contact me by phone (253) 853-7369 or by email at Nicole@PyxisRC.com if you have any questions or need any additional information.

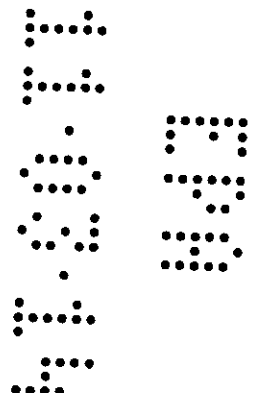
Sincerely,



Nicole Cochran

Enclosures

cc: A. Van Wagner, Tide Internationals, USA, Inc.





United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

| | | |
|---|---|--|
| 1. Company/Product Number Tide International, USA, Inc. / 84229-31 | 2. EPA Product Manager K. Montague | 3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name) Tide International, USA, Inc. / Tide Hexazinone Technical | PM# 23 | |
| 5. Name and Address of Applicant (Include ZIP Code) Tide International, USA, Inc. c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address | 6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____ | |

Section - II

| | |
|--|--|
| <input type="checkbox"/> Amendment - Explain below. | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input type="checkbox"/> "Me Too" Application. |
| <input checked="" type="checkbox"/> Notification - Explain below. | <input type="checkbox"/> Other - Explain below. |

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of an alternate brand name per PRN 98-10. The alternate brand name is "Tide Hexar Technical". This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

| | | | | | |
|--|--|---|--|--|-------------------------|
| 1. Material This Product Will Be Packaged In: | | | | 2. Type of Container | |
| Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | <input type="checkbox"/> Metal | |
| | | | | <input type="checkbox"/> Plastic | |
| | | | | <input type="checkbox"/> Glass | |
| | | | | <input type="checkbox"/> Paper | lined fiber drum or |
| | | | | <input checked="" type="checkbox"/> Other (Specify) | foil lined plastic bags |
| * Certification must be submitted | | | | | |
| 3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container | | 4. Size(s) Retail Container 33.07, 44.09, 200 lbs. | | 5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product | |
| 6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled | | <input type="checkbox"/> Other _____ | | | |

Section - IV

| | | | |
|--|--|---|---|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) | | | |
| Name Nicole Cochran | | Title Agent | |
| | | Telephone No. (Include Area Code) (253) 853-7369 | |
| Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. | | | 6. Date Application Received (Stamped) |
| 2. Signature | | 3. Title Agent | |
| 4. Typed Name Nicole Cochran | | 5. Date 10/30/14 | |
| | | | |



Tide International USA Inc.

21 Hubble, Irvine, CA 92618 Phone: 949-679-3535 Fax: 949-679-3538

April 8, 2014

To Whom It May Concern:

RE: Letter of Authorization

Dear Sir or Madam:

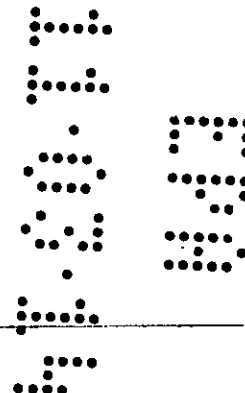
Please let this letter serve to confirm that Janelle Kay, Michael Kellogg, Leanne Pruett, and Ann Tillman of Pyxis Regulatory Consulting, Inc. are authorized to act as agent for Tide International USA, Inc. (EPA Company Number 84229), before the U.S. Environmental Protection Agency, California Department of Pesticide Regulation Pesticide Registration Branch and other state governmental agencies in all matters regarding our pesticide registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. § 136 et seq. and state law.

If you have any questions, please do not hesitate to contact me.

Sincerely,


Dennis Pfeiffer
Vice President/General Manager

cc: Pyxis Regulatory Consulting, Inc.





U.S. ENVIRONMENTAL PROTECTION
AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg.

Number:

84229-31

Date of Issuance:

08-01-2014

NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

Term of Issuance: **conditional**

Name of Pesticide Product:

Tide Hexazinone Technical

Name and Address of Registrant (include ZIP Code):

Tide International USA, Inc. c/o Pyxis Regulatory Consulting, Inc.
21 Hubble 4110 136th St. NW
Irvine, CA 92618 Gig Harbor, WA 98332

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data. You must comply with the **Hexazinone DCI ID# GDCI-107201-1036** issued on October 13, 2011. If you have questions or concerns regarding registration review, please contact the Chemical Review Manager, Dana Friedman at 703-347-8827 or email at friedman.dana@epa.gov.
2. Make the following label revision(s):
 - a. Revise "EPA Reg. No 84229-" to "EPA Reg. No. 84229-31"
 - b. Assure that the EPA establishment number and net contents are also added to the final printed label.
3. Within 18 months of the date on this registration notice, the Storage Stability (830.6317) and Corrosion Characteristics (830.6320) studies must be submitted. They must be conducted in the commercial containers of this product and observations should be made at 0, 3, 6, 9, and 12 month intervals.
4. Per 40 CFR 156.10(6), submit one copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. The basic formulation (dated 09/10/2013) is acceptable and will be added to your file. If you have any questions regarding this notice, please contact Beth Benbow of my staff at benbow.bethany@epa.gov.

Signature of Approving Official:

Kathryn V. Montague
Project Manager 23
Herbicide Branch
Registration Division (7505P)

Date:

08-01-2014

ACCEPTED

08/01/2014

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 84229-31

Tide Hexazinone Technical For Manufacturing Use Only

ACTIVE INGREDIENT:

Hexazinone: [3-cyclohexyl-6-(dimethylamino)-1-methyl-
1,3,5-triazine-2,4-(1H,3H)-dione]99.2%

OTHER INGREDIENTS:0.8%

TOTAL:100.0%

KEEP OUT OF REACH OF CHILDREN DANGER

| FIRST AID | |
|---|---|
| If in eyes: | <ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice. |
| If on skin or clothing: | <ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice. |
| If swallowed: | <ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person. |
| NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. | |
| HOT LINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information. | |

EPA Reg. No 84229-GR

EPA Est. No: xxxx

Manufactured for:
Tide International USA, Inc.
21 Hubble
Irvine, CA 92618

Net Weight: XXXX lbs.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear: protective eyewear (goggles, face shield, or safety glasses), long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, ocean or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting of authority has been notified in writing prior to discharge. Do not discharge effluent containing this product in sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Only for use in the manufacture of herbicides for the following uses:

1. Terrestrial Non-food Crops: Agricultural fallow/idle land, Christmas tree plantations, industrial areas (outdoor), nonagricultural rights-of-way/fencerows/hedgerows, nonagricultural uncultivated areas/soils, bermudagrass/bahiagrass (non-residential areas only);
2. Terrestrial Feed Crops: Agricultural rights-of-way/fencerows/hedgerows, alfalfa, grass forage/fodder/hay, pastures, rangelands,
3. Terrestrial Food and Feed Crops: pineapple, sugarcane
4. Terrestrial Food Crops: blueberry
5. Forestry: conifer release, forest plantings (reforestation programs), forest trees
6. Uses for which EPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration.
7. Uses for experimental purposes that are in compliance with EPA registration for the formulated products.

Each formulator is responsible for obtaining EPA registration for their end-use product(s).

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

Pesticide Storage: Store in original container in a cool, dry place.

Pesticide Disposal: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. If not emptied in this manner, the bag may be considered an acute hazardous waste and must be disposed of in accordance with local, state and federal regulations. When completely empty, offer for recycling if available. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Tide International USA, Inc. ("Tide"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Tide warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Tide, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, TIDE DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, TIDE, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF TIDE IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF TIDE, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT TIDE'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

[EPA approval date]



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION DIVISION (7505P)

29/APR/2014

MEMORANDUM: Acute Toxicity Data Evaluation Record (DER) for Tide Hexazinone Technical

Subject: Name of Pesticide Product: Tide Hexazinone Technical
EPA File Symbol: 84229-GR
DP Barcode: D415784
Decision No.: 483382
Action Code: R333
PC Codes: 107201 Hexazinone

From: Tracy Keigwin, Biologist
Technical Review Branch
Registration Division (7505P)

To: Bethany Benbow, Team 23
Herbicide Branch
Registration Division (7505P)

Applicant: Tide International USA Inc.
c/o Pyxis Regulatory Consulting, Inc.
4110 136th St. NW
Gig Harbor, WA 98332

Kay
of
Haslin
Toxicology

FORMULATION FROM LABEL:

| <u>Active Ingredient(s):</u> | <u>% by wt.</u> |
|------------------------------|-----------------|
| Hexazinone | 99.2 |

| | |
|-----------------------------|-----|
| <u>Other Ingredient(s):</u> | 0.8 |
|-----------------------------|-----|

Total: 100.0%

ACTION REQUESTED: The Risk Manager requests a review of the acute toxicity data submitted in support of EPA File Symbol 84229-GR, Tide Hexazinone Technical.

BACKGROUND: Tide International USA, Inc. has submitted an application for the registration of EPA File Symbol 84229-GR, Tide Hexazinone Technical. They have claimed similarity to DuPont Hexazinone Technical, EPA Reg. No. 352-399 and have additionally submitted product specific acute toxicity data. The MRIDs for these studies are as follows: 49219916 (870.1100), 49219917 (870.1200), 49219918 (870.1300), 49219919 (870.2400), 49219920 (870.2500) and 49219921 (870.2600). The product label states that Tide Hexazinone Technical is for the manufacture of herbicides for listed areas.

GLP: All studies were conducted in accordance with GLP.

DEFICIENCIES: Problems with primary eye and dermal sensitization studies. See #2 and #3, below.

COMMENTS AND RECOMMENDATIONS:

1) While the registrant has claimed similarity to EPA Reg. No. 352-399, we have determined the acute toxicity profile from the product specific acute toxicity data submitted by the registrant. Only 4 of the 6 acute toxicity studies are acceptable. The primary eye irritation and dermal sensitization studies are both classified as supplementary (see below). At present, the acute toxicity profile for EPA File Symbol 84229-GR is as follows:

| | | | |
|---------------------------|-----|---------------|---------------|
| acute oral toxicity | III | Acceptable | MRID 49219916 |
| acute dermal toxicity | III | Acceptable | MRID 49219917 |
| acute inhalation toxicity | IV | Acceptable | MRID 49219918 |
| primary eye irritation* | I | Supplementary | MRID 49219919 |
| primary skin irritation | IV | Acceptable | MRID 49219920 |
| dermal sensitization* | YES | Supplementary | MRID 49219921 |

*Primary eye irritation and dermal sensitization studies are Supplementary

2) The primary eye irritation study (MRID 49219919) is classified as Supplementary. The study states that "...treated and untreated eyes were washed at 1 hour following instillation ..." HED Test Guidelines 870.2400 state that "the eyes of the test animals should not be washed out for 24 hours following instillation of the test substance." We can accept this study for regulatory purposes provided the registrant accepts a Category I rating for primary eye irritation. Alternatively the registrant may repeat the study without the eyewash or cite a new study (with MRID number).

3) The dermal sensitization study is Supplementary. The same vehicle should have been used for both the induction and challenge applications. In addition, the induction application chosen is supposed to be the highest concentration tested causing mild irritation. The selected vehicle(s) limited the highest concentration tested to 40% and no dermal response of any kind was observed in the pilot study. A different vehicle that allowed a higher concentration should have been chosen. It is difficult to determine if the lack of a dermal response at induction and challenge is due to the low concentration of test substance or if the product truly isn't a dermal sensitizer. We will accept this study for regulatory purposes provided the registrant accept dermal sensitization

labeling for this product. Alternatively the registrant may repeat the study or cite a new study (with MRID number).

4) The Basic CSF (dated September 10, 2013) must be approved by the product chemistry team before this action can be finalized.

3) The Precautionary and first aid statements for this product are as follows:

PRODUCT ID #: 84229-GR (84229-31)

PRODUCT NAME: Tide Hexazinone Technical

PRECAUTIONARY STATEMENTS

SIGNAL WORD: DANGER

Hazards to Humans and Domestic Animals:

Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear: protective eyewear (goggles, face shield, or safety glasses), long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

First Aid:

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

If on skin:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

Note to PM/CRM/Registrant: The proposed label must contain a "Note to Physician" which addresses the Category I Primary eye irritation. It must contain the following statement:

"Probable mucosal damage may contraindicate the use of gastric lavage"

In addition, the registrant may include the following information:

- technical information on symptomatology;
- use of supportive treatments to maintain life functions;
- medicine that will counteract the specific physiological effects of the pesticide;
- company telephone number to specific medical personnel who can provide specialized medical advice

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

Reviewer: Tracy Keigwin
Risk Manager (EPA): 23

Date: April 29, 2014

The following table is the Acute Toxicity Data Evaluation Record (DER) for the six studies submitted for the proposed product, EPA File Symbol 84229-GR:

| 1. DP BARCODE: 483382 | | | | |
|---|-------------|--|--------------------|-----------------------|
| 2. PC CODES: 107201 Hexazinone | | | | |
| 3. CURRENT DATE: April 29, 2014 | | | | |
| 4. TEST MATERIAL: Hexazinone Technical (Purity: 98.5% Hexazinone; Batch Number 20100119-109; White crystalline powder) | | | | |
| Study/Species/Lab Study # /Date | MRID | Results | Tox Cat | Core Grade |
| Acute oral toxicity / rat Intox/(Maharashtra, India) Study number 10701/ February 22, 2011 OCSPP 870.1100; OECD 425 | 49219916 | LD ₅₀ Females = 1554 mg/kg bw. 1280 mg/kg bw and 1690 mg/kg bw concentrations tested. All (3/3) survived the 1280 mg/kg dose. Animals at this dose level exhibited tremors from the 1 hour through the 24 hour observation. No gross abnormalities were observed at necropsy. Both animals at the 1690 mg/kg concentration were found dead within 2-4 days following dosing. Clinical observations prior to death included tremors, ataxia, and convulsions from 30 minutes following dosing until death. No gross abnormalities were observed in the decedents at this dose level at necropsy. | III | A |
| Acute dermal toxicity / rat Intox/(Maharashtra, India) Study number 10702/ February 22, 2011 OCSPP 870.1200; OECD 402 | 49219917 | LD ₅₀ > 2000 mg/kg bw (both sexes and combined). All rats survived. No clinical abnormalities were observed. No gross abnormalities were observed at necropsy. | III | A |
| Acute inhalation toxicity / rat Intox/(Maharashtra, India) | 49219918 | LC ₅₀ > 2.63 mg/L (Nose-only, gravimetric; both sexes and | IV | A |

| | | | | |
|--|----------|---|-----|---|
| Study number 10703/ February 22, 2011 OCSPP 870.1300; OECD 403 | | combined). Five males and 5 females tested. Mean MMAD and GSD: 1.50 μ m and 2.86, respectively. All rats survived. All exhibited hypoactivity and ruffled appearance following exposure, resolving within 2 days. No gross abnormalities were observed at necropsy. | | |
| Primary eye irritation / rabbit Intox/(Maharashtra, India) Study number 10705/ February 22, 2011 OCSPP 870.2400; OECD 405 | 49219919 | <u>This study is Supplementary and will be classified as Category I for regulatory purposes.</u> Treated and untreated eyes were rinsed 1 hour after test substance instillation. No corneal opacity or iritis was observed during the study. All animals (3/3) exhibited grade 1 redness and/or chemosis (not a positive response) from the 1 hour observation through the day 7 observation. One animal (1/3) exhibited grade 2 redness (a positive response) at the day 14 observation. All scores "0" by the day 21 observation. | I | S |
| Primary dermal irritation / rabbit Intox/(Maharashtra, India) Study number 10704/ February 22, 2011 OCSPP 870.2500; OECD 404 | 49219920 | PDI = 0.0 (non-irritating). No erythema or edema was observed at 1, 24, 48 and 72 hours after patch removal. | IV | A |
| Dermal sensitization /Guinea Pig Intox/(Maharashtra, India) Study number 10706/ February 22, 2011 OCSPP 870.2600; OECD 406 | 49219921 | <u>This study is Supplementary and classified as a Sensitizer for regulatory purposes.</u> Different vehicles were used for induction and challenge applications. Selected test concentrations were not high enough. Tested using Buehler method. | YES | S |

| | | | | |
|--|--|---|--|--|
| | | 20 test animals/10 controls. Concentrations selected for the induction and challenge were 40% w/v concentration of test article in 80% ethanol/water and 40% w/v concentration of test article in acetone. Following challenge, no dermal reactions were seen on any of the treated or naïve control animals at either time point. Appropriate positive control study (INTOX study No. 10235) was provided. | | |
|--|--|---|--|--|

Core Grade Key: A =Acceptable, S = Supplementary, U = Unacceptable, D = Data Gap



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION
OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)

DP BARCODE No.: 415782, 415783; **FILE SYMBOL No.:** 84229-GR; **PRODUCT NAME:** Tide Hexazinone Technical; **DECISION No.:** 483382; **PC Code(s):** 107201; **ACTION CODE:** R333; **FOOD Use:** Yes

DATE: April 17, 2014

SUBJECT: Product Chemistry Review of "Tide Hexazinone Technical"

FROM: Shyam Mathur, Ph.D
Product Chemistry Team Leader
Technical Review Branch/RD (7505P)

SB Mathur
4-17-14
JCR

TO: Bethany Benbow / Kathryn Montague, RM 23
Herbicide Branch / RD (7505P)"

REGISTRANT: Tide International, USA, Incorporation

USE: Herbicide

FOOD USE: Yes [X] No []

MRID Numbers: 492199-01 to 492199-15

Table of Contents

| | |
|-----------------------------|----|
| INTRODUCTION..... | 2 |
| SUMMARY OF FINDINGS..... | 2 |
| CONCLUSIONS..... | 4 |
| PRODUCT IDENTITY..... | 5 |
| GROUP A TABLE..... | 6 |
| GROUP B TABLE..... | 7 |
| PRODUCTION PROCESS..... | 9 |
| DISCUSSION ON IMPURITY..... | 11 |
| PRELIMINARY ANALYSIS..... | 13 |

DP BARCODE No.: 415782, 415783; FILE SYMBOL No.: 84229-GR; PRODUCT NAME: Tide Hexazinone Technical; DECISION No.: 483382; PC Code(s): 107201; ACTION CODE: R333; FOOD Use: Yes

INTRODUCTION:

The registrant has submitted an application for the registration of the new product Tide Hexazinone technical. The registrant has submitted a CSF for basic formulation (dated September 10, 2013) and the supporting product chemistry data (group A & group B) with MRID Nos. MRID Nos. 492199-01 to -15. [REDACTED] of the impurities present in the technical is considered of tox concern. The Tide Hexazinone technical is produced by [REDACTED]. The registrant has claimed that the proposed technical is substantially similar to the registered product with Reg. No. 352-399. TRB has been asked to evaluate and determine the acceptability of the proposed basic CSF (dated 09-10-2013) and the supporting product chemistry data and also determine similarity to the cited product.

SUMMARY OF FINDINGS:

1. The findings for Group A guideline data were as follows:

830.1550 (product identity & composition): The registrant has submitted a CSF for basic formulation (dated 09-10-2013). The product chemistry data corresponding to this guideline submitted on the CSF satisfy the data requirements of 40CFR§158.320. The nominal concentration 99.2% for AI concurs with the product label claim nominal concentration of 99.2% [MRID 492199-01].

830.1600 (description of materials used to produce the product): The product chemistry data submitted corresponding to this guideline satisfy the data requirements of 40CFR§ 158.325. The registrant has submitted the MSDS's for all the starting materials used to produce the hexazinone technical [MRID No. 492199-01].

830.1620 (description of production process): The product chemistry data submitted corresponding to this guideline satisfy the data requirements for 40CFR§158.330. The hexazinone technical was produced in [REDACTED]. The details of the production process have been provided by the registrant [MRID No. 492199-01].

830.1670 (discussion on the formation of impurities): The product chemistry data submitted corresponding to this guideline satisfy the data requirements for 40CFR§158.340. The registrant has listed [REDACTED] impurities (in the proposed basic CSF 09-10-2013) which were identified and detected at during the five batch analysis including [REDACTED]. The impurity marked as [Impurity I] in the CSF was not detected at the concentrations of >0.1% during the five batches analyzed, however, this impurity is highly likely to be present in larger scale batches, a nominal concentration of [REDACTED] is proposed in the basic CSF. The registrant has provided mechanism of the formation of these impurities. The registrant has reported [REDACTED] impurity of tox concern in the Tide Hexazinone technical [MRID No. 492199-01].

DP BARCODE No.: 415782, 415783; **FILE SYMBOL No.:** 84229-GR; **PRODUCT NAME:** Tide Hexazinone Technical; **DECISION No.:** 483382; **PC Code(s):** 107201; **ACTION CODE:** R333; **FOOD Use:** Yes

- 830.1700 (preliminary analysis): The product chemistry data submitted corresponding to this guideline to support the claims on the CSF satisfy the data requirements of 40CFR§158.345. The five lots of hexazinone technical were analyzed to determine the concentration of the active ingredient hexazinone and the associated impurities. The AI and the Impurity I were determined by using HPLC-UV (210 nm) with internal standard quantification method. The impurity of tox concern was estimated by GC-FID using external standard quantification technique. The structures of the active ingredient and the impurities were confirmed by ¹HNMR, IR, UV and HPLC-MS methods. The analytical methods have been validated for linearity, accuracy and precision [MRID No. 492199-02].
- 830.1750 (certified limits): The product chemistry data submitted corresponding to this guideline satisfy the requirements of 40CFR§158.350. The certified limits for the active ingredient are based on the standard certified limits. The proposed certified limits for the identified impurities are based on the five batch analysis results [MRID No. 492199-02].
- 830.1800 (enforcement analytical method): The product chemistry data submitted corresponding to this guideline satisfy the requirements of 40CFR§158.355. The content of the active ingredient was determined by using HPLC-UV internal standard technique. The analytical method was validated for precision, accuracy and linearity [MRID No. 491407-02].
2. The 830 series group B guideline data (physical-chemical properties) submitted satisfy the data requirements of 40CFR§158.310(e) [MRID No. 492199-03 to 492199-15].

DP BARCODE No.: 415782, 415783; **FILE SYMBOL No.:** 84229-GR; **PRODUCT NAME:** Tide Hexazinone Technical; **DECISION No.:** 483382; **PC Code(s):** 107201; **ACTION CODE:** R333; **FOOD Use:** Yes

CONCLUSIONS:

The TRB has reviewed the product chemistry data submitted for proposed Tide Hexazinone Technical (produced by [REDACTED]) to support the proposed basic CSF and has concluded that:

1. The product chemistry data submitted for guideline 830 Series group A are acceptable.
2. The proposed CSF for basic formulation (dated 09-10-2013) is acceptable. The nominal concentration of 99.2% concurs with the product label claim nominal concentration of 99.2%.
3. The product chemistry data submitted for guideline 830 Series group B are acceptable. The registrant has informed that studies for the guidelines 830.6317 (storage stability) and 830.6320 (corrosion characteristics) have been initiated and the results will be submitted on completion of studies.
4. The proposed product with File Symbol No. 84229-GR was determined not to be substantially similar to the cited product with Reg. No. 352-399 from the product chemistry point of view. The impurity profile of the proposed and cited product is significantly different. The proposed product is more pure and has lesser impurities as compared to cited product. [REDACTED]

DP BARCODE No.: 415782, 415783; **FILE SYMBOL No.:** 84229-GR; **PRODUCT NAME:** Tide Hexazinone Technical; **DECISION No.:** 483382; **PC Code(s):** 107201; **ACTION CODE:** R333; **FOOD Use:** Yes

830.1550. Product identity & composition: (MRID No. 492199-01)

Common Name: Hexazinone

CAS name: 3-cyclohexyl-6-(dimethylamino)-1-methyl-1, 3, 5-triazine-2, 4-(1H, 3H)-dione

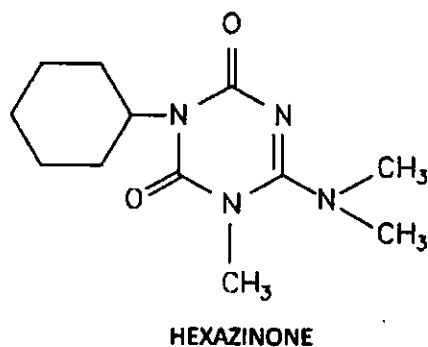
IUPAC Name: 3-cyclohexyl-6-(dimethylamino)-1-methyl-1, 3, 5-triazine-2, 4-dione

CAS No.: 51235-04-2

Molecular formula: $C_{12}H_{20}N_4O_2$

Molecular weight: 252.3

Structural Formula:



DP BARCODE No.: 415782, 415783; FILE SYMBOL No.: 84229-GR; PRODUCT NAME: Tide Hexazinone Technical; DECISION No.: 483382; PC Code(s): 107201; ACTION CODE: R333; FOOD Use: Yes

Group A Data

| Table 1. Manufacturing and Impurity Data Tide Hexazinone Technical | | | | |
|---|--|------------------------|--------|---|
| GLN | Requirement | MRID | Status | Details and /or Deficiency |
| 830.1550 | Product Identity and composition | 492199-01 | A | Submitted a basic CSF (dated 09-10-13) with NC of 99.2% for the AI. |
| 830.1600 | Description of materials used to produce the product | 492199-01 | A | Submitted the MSDS's for all the starting materials used in the synthesis of Tide Hexazinone technical at the site located at [REDACTED] |
| 830.1620 | Description of production process | . | A | The hexazinone technical was produced in [REDACTED] to obtain hexazinone technical grade AI (99.2%). The manufacturing process has been described in detail. The quality assurance procedures adopted in each step of the process have been included. |
| 830.1670 | Discussion of formation of impurities | . | A | Impurities discussed and identified. The discussions on the mechanisms of the formation of all impurities listed on the CSF have been provided. [REDACTED] impurities have been listed in the CSF. The registrant did report one well known impurity of tox concern in hexazinone technical. |
| 830.1700 | Preliminary analysis | 492199-02 | A | The five batch analysis of the hexazinone technical was conducted to determine the contents of the active ingredient and the impurities. HPLC-UV method was used for the determination of the AI & impurities contents. One of the impurities was identified by using GC-FID with external standard quantitation method. The identities of the impurities & active ingredient were confirmed by ¹ HNMR, IR, UV and GC-MS. The analytical methods were validated for linearity, accuracy, precision, LOQ and LOD. |
| 830.1750 | Certified limits | 492199-01 | A | The proposed limits for the AI are based on the standard limits whereas the certified limits for the impurities are proposed on the preliminary analysis basis. |
| 830.1800 | Enforcement analytical method | 492199-01 492199-03 | A | The HPLC-UV (210 nm) with internal standard method was used for the determination of the AI contents. The method was validated for precision, linearity and accuracy. |
| A = Acceptable; N = Unacceptable (see Deficiency); N/A = Not Applicable; G = Data gap; I = In progress; U = Up-grade (additional information required); | | | | |

Product ingredient source information may be entitled to confidential treatment
 Manufacturing process information may be entitled to confidential treatment

DP BARCODE No.: 415782, 415783; **FILE SYMBOL No.:** 84229-GR; **PRODUCT NAME:** Tide Hexazinone Technical; **DECISION No.:** 483382; **PC Code(s):** 107201; **ACTION CODE:** R333; **FOOD Use:** Yes

830 Series Subgroup B (Physical-Chemical properties)

| Table 2: Physical and Chemical Properties of : Tide Hexazinone TGA/MUP | | | | |
|--|---|-----------|--------|--|
| GLN | Requirement | MRID | Status | Result or Deficiency |
| 830.6302 | Color | 492199-04 | A | White |
| 830.6303 | Physical state | 492199-05 | A | Solid (crystalline) |
| 830.6304 | Odor | 492199-06 | A | Pleasant mild odor |
| 830.6313 | Stability to normal and elevated temperatures, metals, and metal ions | " " " | A | Stable to metals like iron filings & lead and the metal ions like ferric citrate and lead acetate for two weeks at 54°C |
| 830.6314 | Oxidation/reduction: chemical incompatibility | 492199-08 | A | Test substance was found to be compatible with water, ammonium dihydrogen phosphate, potassium dichromate, potassium permanganate, hydrogen peroxide, iron filings, kerosene and gasoline. |
| 830.6315 | Flammability | 492199-15 | A | Waiver request |
| 830.6316 | Explosibility | " " " " | A | Waiver request |
| 830.6317 | Storage stability | " " " " | N | Waiver request denied |
| 830.6319 | Miscibility | " " " " | A | Waiver request |
| 830.6320 | Corrosion characteristics | " " " " | N | Waiver request denied |
| 830.7000 | pH | 492199-09 | A | 7.55 at 24.8°C (1% w/v suspension) |
| 830.7050 | UV/Visible absorption | 492199-10 | A | See Note 1 |
| 830.7100 | Viscosity | 492199-15 | A | Waiver request |
| 830.7200 | Melting point | 492199-11 | A | Range = 113.6 – 116.8°C |
| 830.7220 | Boiling point | 492199-15 | W | Waiver request |
| 830.7300 | Density | 492199-12 | A | 1.2615 g/ml at 20°C (pycnometer method) |
| 830.7370 | Dissociation constants in water (DC) | 492199-15 | A | pK _a = 2.2 (25°C); Literature Cited: Tomlin, "The Pesticide manual" 13 th Edition, p539, BCPC Publication, Hampshire 2003 |
| 830.7550 | Partition coefficient | 492199-15 | A | Log P = 1.2 (pH, 7) Literature Cited: Tomlin, "The Pesticide manual" 13 th Edition, p539, BCPC Publication, Hampshire 2003 |
| 830.7840 | Water solubility: | 492199-13 | A | 34.34 g/L at 25°C (pH=6.5) |
| 830.7950 | Vapor pressure | 492199-15 | A | 0.03 mPa (25°C); Literature Cited: Tomlin, "The Pesticide manual" 13 th Edition, p539, BCPC Publication, Hampshire 2003 |

A = Acceptable; N = unacceptable (see Deficiency); N/A = Not Applicable; G = Data gap; I = In progress or need upgrade; U = Upgrade (additional information required)

DP BARCODE No.: 415782, 415783; **FILE SYMBOL No.:** 84229-GR; **PRODUCT NAME:** Tide Hexazinone Technical; **DECISION No.:** 483382; **PC Code(s):** 107201; **ACTION CODE:** R333; **FOOD Use:** Yes

Note 1: 830.7050 (UV-VIS) [MRID No. 492199-10]

| pH | Maximum wavelength (nm) | Molar Absorptivity ($\text{Lmol}^{-1} \text{cm}^{-1}$) |
|----|-------------------------|---|
| 1 | 228.55 | 12862 |
| 2 | 245.75 | 15302 |
| 7 | 246.40 | 17436 |
| 10 | 246.45 | 17612 |
| 11 | 246.45 | 17224 |

Solubility in Organic solvents at 25°C in g/L (MRID No. 492199-14)

Acetone = >250
N-heptane = <10
p-Xylene = 67 to 80
1, 2-dichloroethane = > 250
Methanol = >250
Ethyl acetate = 133 to 160

DP BARCODE No.: 415782, 415783; FILE SYMBOL No.: 84229-GR; PRODUCT NAME: Tide
Hexazinone Technical; DECISION No.: 483382; PC Code(s): 107201; ACTION CODE: R333; FOOD
Use: Yes

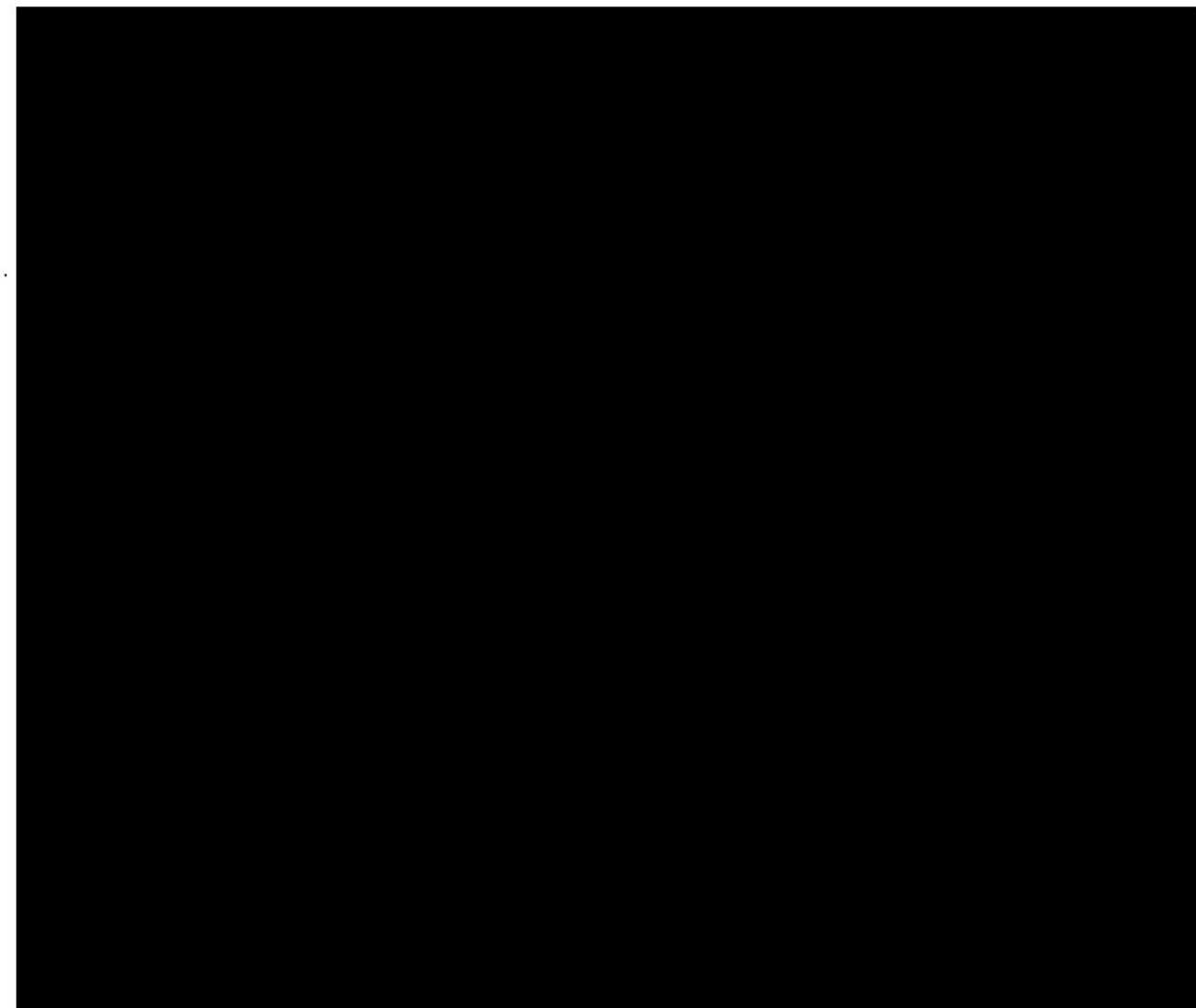
CONFIDENTIAL APPENDIX

830.1600 (description of materials used to produce the product)
(MRID No. 492199-01)

The registrant provided the MSDS's for the following raw chemicals used in the synthesis of hexazinone technical:



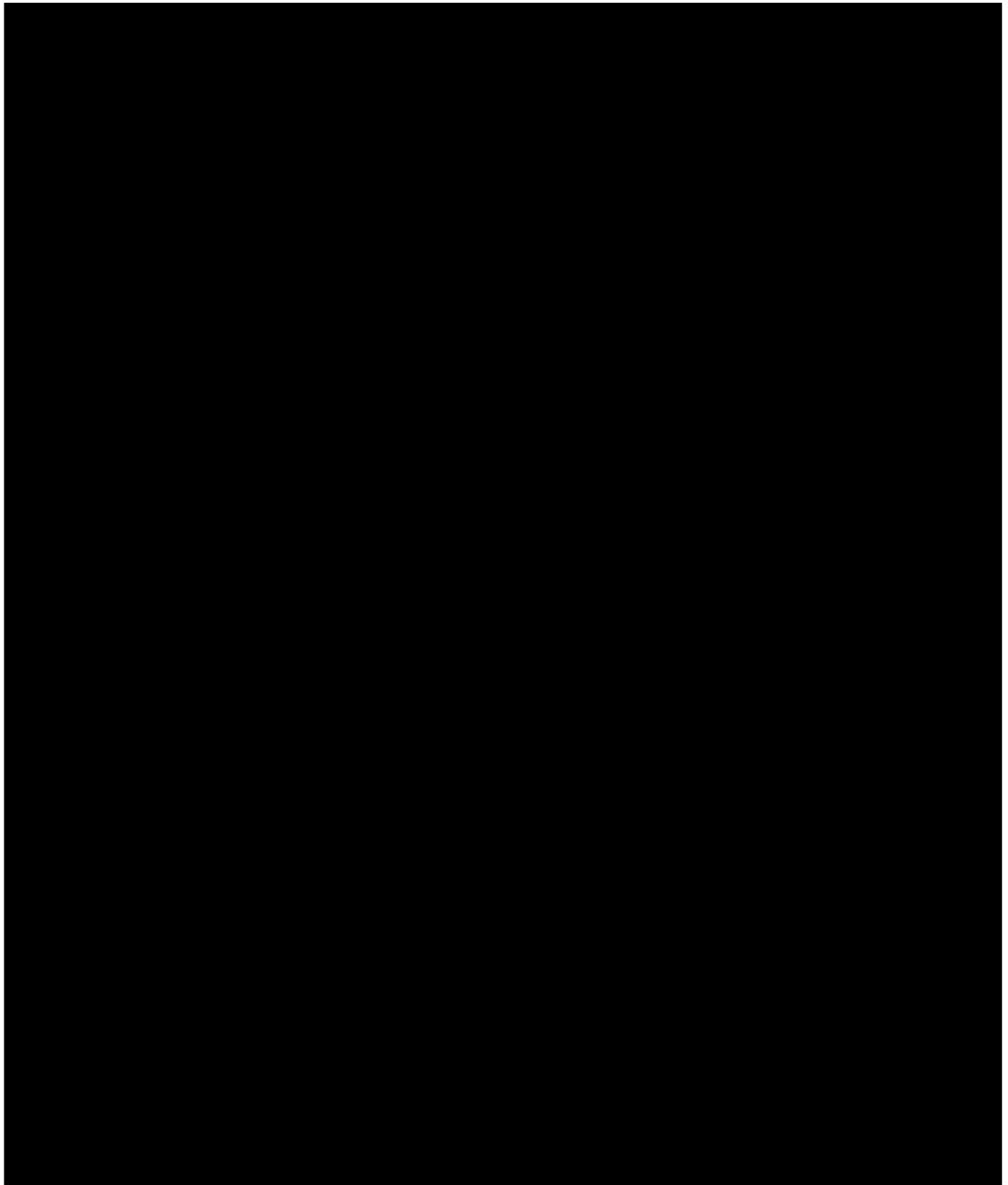
830.1620 (description of production process)
(MRID No. 492199-01)



Manufacturing process information may be entitled to confidential treatment

DP BARCODE No.: 415782, 415783; FILE SYMBOL No.: 84229-GR; PRODUCT NAME: Tide
Hexazinone Technical; DECISION No.: 483382; PC Code(s): 107201; ACTION CODE: R333; FOOD
Use: Yes

CONFIDENTIAL APPENDIX

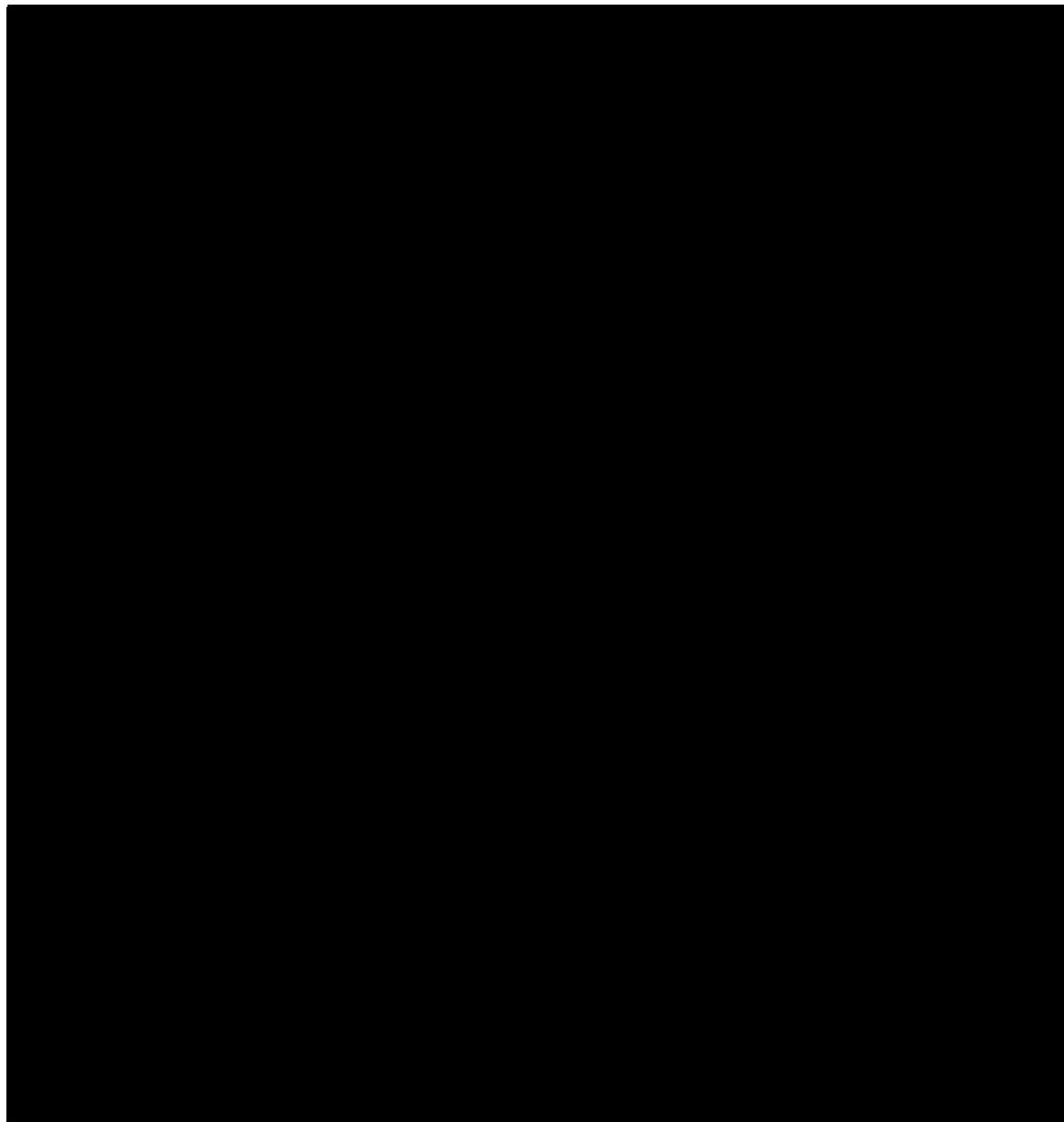


Manufacturing process information may be entitled to confidential treatment

DP BARCODE No.: 415782, 415783; FILE SYMBOL No.: 84229-GR; PRODUCT NAME: Tide
Hexazinone Technical; DECISION No.: 483382; PC Code(s): 107201; ACTION CODE: R333; FOOD
Use: Yes

CONFIDENTIAL APPENDIX

830.1670 (discussion on the formation of impurities) (MRID No. 492199-01)



Manufacturing process information may be entitled to confidential treatment

DP BARCODE No.: 415782, 415783; FILE SYMBOL No.: 84229-GR; PRODUCT NAME: Tide
Hexazinone Technical; DECISION No.: 483382; PC Code(s): 107201; ACTION CODE: R333; FOOD
Use: Yes

CONFIDENTIAL APPENDIX



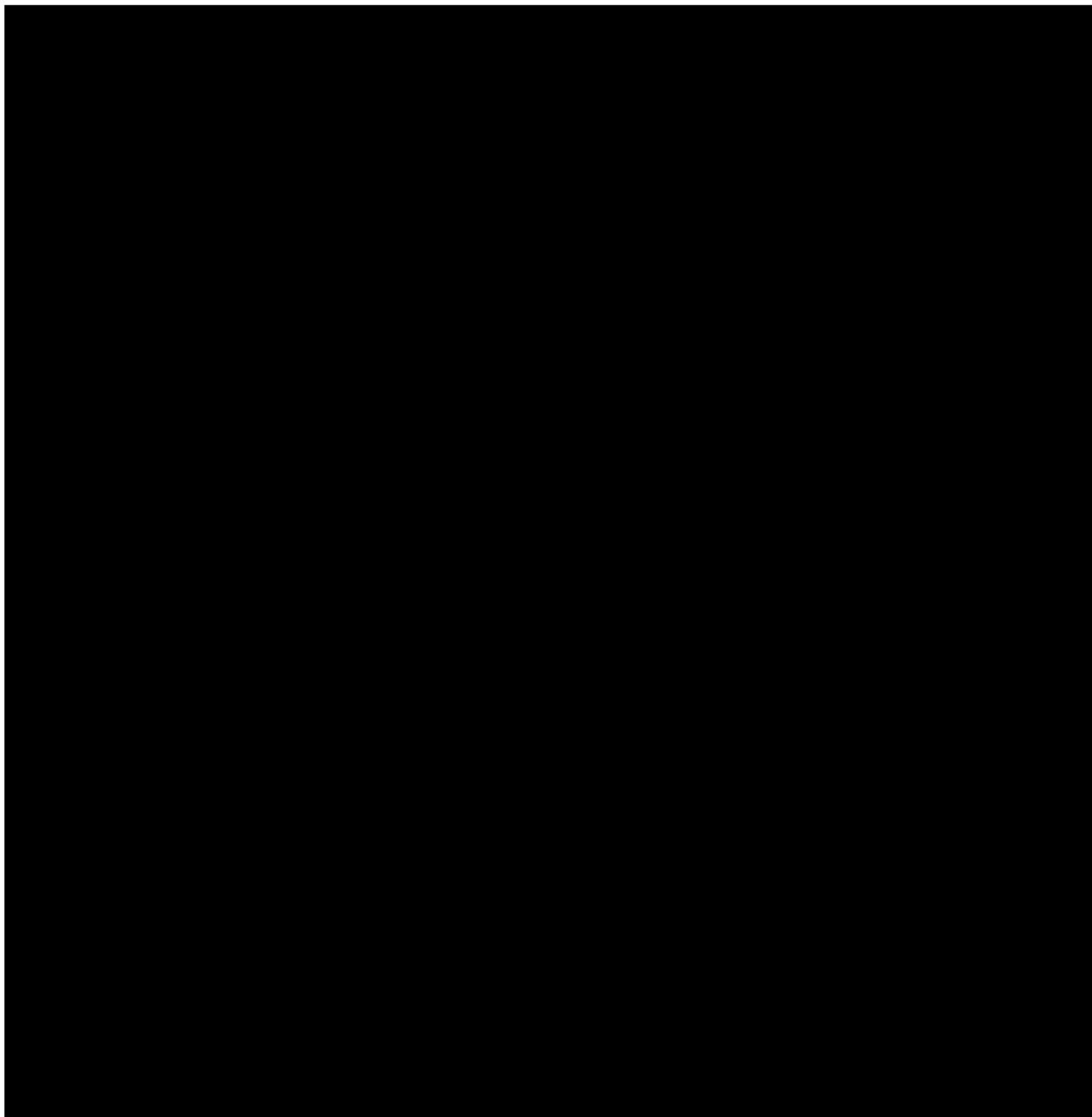
Manufacturing process information may be entitled to confidential treatment

DP BARCODE No.: 415782, 415783; FILE SYMBOL No.: 84229-GR; PRODUCT NAME: Tide
Hexazinone Technical; DECISION No.: 483382; PC Code(s): 107201; ACTION CODE: R333; FOOD
Use: Yes

CONFIDENTIAL APPENDIX

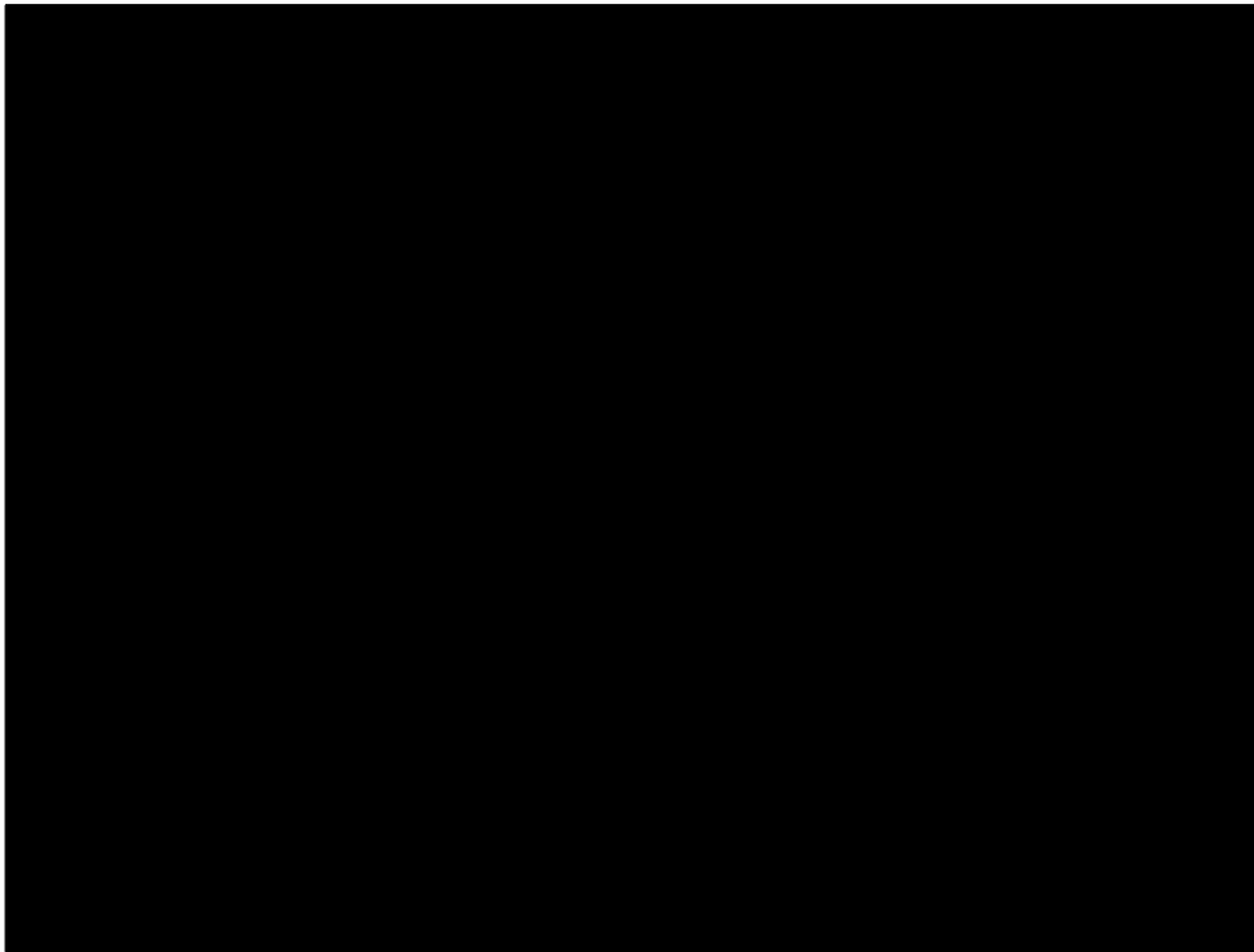
830.1700 (preliminary analysis) [MRID No. 492199-02 & 492199-03]

Manufacturing process information may be entitled to confidential treatment



DP BARCODE No.: 415782, 415783; FILE SYMBOL No.: 84229-GR; PRODUCT NAME: Tide
Hexazinone Technical; DECISION No.: 483382; PC Code(s): 107201; ACTION CODE: R333; FOOD
Use: Yes

CONFIDENTIAL APPENDIX



Manufacturing process information may be entitled to confidential treatment

Screen



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460
OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION
OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)

DP BARCODE No.: D415782, D415783; **FILE SYMBOL No.:** 84229-GR (screen); **PRODUCT NAME:** Tide Hexazinone Technical; **DECISION No.:** 483382; **PC Code(s):** 107101; **ACTION CODE:** R333;
FOOD Use: Yes

DATE OUT: November 8, 2013

SUBJECT: Completeness check for TGAI/MUP

Product Name: Tide Hexazinone Technical

FROM: Shyam Mathur,
Product Chemistry Team Leader
Technical Review Branch/RD (7505P)

S. B. Mathur
11/8/13

TO: • Bethany Benbow / Kathryn Montague, PM 23
Herbicide Branch / RD (7505P)

Company Name: Tide International USA Incorporation
Formulation Type: Fungicide
Active Ingredient: Hexazinone Technical (99.2%)
MRID Nos.: 492199-01 to 492199-15

Results of completeness check screen

| File No./ Reg. No | Product Name | Group A Data Submitted | | Group B Data Submitted | | CSF | | Label |
|----------------------|---------------------------------|---------------------------|----|---------------------------|----|-----|-------------------|-------|
| | | Yes | No | Yes | No | Yes | No | |
| 84229-GR | Tide Hexazinone Technical | + | | + | | + | Basic 09-10-13 | + |

CONCLUSION:

Group A: All data submitted

Group B: All data submitted.

CSF: Basic CSF (dated 09-10-2013) submitted. [Production site: XXXXXXXXXX]

Product label: Submitted

Product ingredient source information may be entitled to confidential treatment

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

September 19, 2013

OVERNIGHT DELIVERY

Kathryn V. Montague (PM 23)
Document Processing Desk (REGFEE)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Dear Ms. Montague,

RE: Tide International USA, Inc.
Tide Hexazinone Technical (EPA Reg. No. 84229-)
Application for New Pesticide Registration
PRIA Category R333

On behalf of Tide International USA, Inc., we are submitting an application for registration of Tide Hexazinone Technical. This application for registration is linked to a secondary application (Tide Hexazinone 75 WDG). In support of this application, we submit the following documents:

1. Application for a New Pesticide Registration (EPA Form 8570-1)
2. Confidential Statement of Formula (EPA Form 8570-4) for Basic Formulation
3. Three (3) Copies of the Proposed Labeling
4. A CD containing an electronic version of the label
5. Certification with Respect to Label Integrity
6. Certification with Respect to Citation of Data (EPA Form 8570-34)
7. Agency Internal Use Copy of the Data Matrix
8. Public File Copy of the Data Matrix
9. Copy of PRIA payment
10. Letter of Authorization
11. Product Specific Data (3 copies of each report)

| | | | |
|-----------------|----------|--|---|
| 49219901 | Volume 1 | 830.1550, 830.1600, 830.1620, 830.1670, 830.1750, 830.1800 | Tillman, A.M. and Z. Xiangfei. Product Identity and Composition, Description of the Materials Used, Description of the Production Process, Discussion of the Formation of Impurities, Certified Limits and Enforcement Analytical Method for Tide Hexazinone Technical. Contains Confidential Business Information |
| 49219902 | Volume 2 | 830.1700, 830.1800 | Tillman, A. M. Compilation Report: 5-Batch Analysis of Hexazinone 98% Tech and Validation of Analytical Methods, Determination of IR, UV/VIS-Absorption and Mass-Spectra. Contains Confidential Business Information |
| 49219903 | Volume 3 | 830.1800 | Marne, S. K. Validation of Analytical Method for Hexazinone. |
| 49219904 | Volume 4 | 830.6302 | Waghade, D. B. Determination of Colour of Hexazinone Technical. |
| 49219905 | Volume 5 | 830.6303 | Waghade, D. B. Determination of Physical State of Hexazinone Technical. |
| 49219906 | Volume 6 | 830.6304 | Waghade, D. B. Determination of Odour of Hexazinone Technical. |

| | | | |
|-----------------|-----------|---|--|
| 49219907 | Volume 7 | 830.6313 | Karambelkar, N. P. Determination of Storage Stability of Hexazinone Technical to Normal and Elevated Temperature, Metals and Metal Ions. |
| 49219908 | Volume 8 | 830.6314 | Karambelkar, N. P. Determination of Oxidizing/Reducing Properties of Hexazinone Technical. |
| 49219909 | Volume 9 | 830.7000 | Waghade, D. B. Determination of pH of Hexazinone Technical. |
| 49219910 | Volume 10 | 830.7050 | Marne, S. K. Determination of UV-Visible Spectrum of Hexazinone Technical. |
| 49219911 | Volume 11 | 830.7200 | Marne, S. K. Determination of Melting Point/Melting Range of Hexazinone Technical. |
| 49219912 | Volume 12 | 830.7300 | Waghade, D. B. Determination of Density of Hexazinone Technical. |
| 49219913 | Volume 13 | 830.7840 | Karambelkar, N. P. Determination of Solubility of Hexazinone Technical in Water. |
| 49219914 | Volume 14 | 830.7840 | Karambelkar, N. P. Determination of Solubility of Hexazinone Technical in Organic Solvents. |
| 49219915 | Volume 15 | 830.6315, 830.6316, 830.6317, 830.6319, 830.6320, 830.6321, 830.7100, 830.7220, 830.7370, 830.7520, 830.7550-7570, 830.7950 | Tillman, A. M. Tide Hexazinone Technical: Physical and Chemical Properties and Waiver Requests. |
| 49219916 | Volume 16 | OECD 425 | Dhokale, C. S. Acute Oral Toxicity Study of Hexazinone Technical in Rat. |
| 49219917 | Volume 17 | OECD 402 | Dhokale, C. S. Acute Dermal Toxicity Study of Hexazinone Technical in Rat. |
| 49219918 | Volume 18 | OECD 403 | Patil, J. J. Acute Inhalation Toxicity Study of Hexazinone Technical in Rat. |
| 49219919 | Volume 19 | OECD 405 | Kale, M. B. Acute Eye Irritation/Corrosion Test of Hexazinone Technical in Rabbit. |
| 49219920 | Volume 20 | OECD 404 | Kale, M. B. Acute Dermal Irritation/Corrosion Test of Hexazinone Technical in Rabbit. |
| 49219921 | Volume 21 | OECD 406 | Pachpute, P. R. Skin Sensitization Study (Buehler Test) of Hexazinone Technical in Guinea Pigs. |

Tide International USA, Inc. is using the cite-all method of data support. As per EPA's interpretations of 40 CFR Parts 152.86(b)(2)(i) and 152.93(b)(2)(i), Tide International USA, Inc. submitted notices of intent to apply and offers to pay to all companies on the April 8, 2013 Data Submitter's List. This action falls under PRIA category R333 (52: New manufacturing-use product). The fee for this action is \$17,993 and has been paid.

Please contact me ((253) 853-7369, Ann@PyxisRC.com) if you have any questions or need any additional information.

Sincerely,



Ann M. Tillman

Enclosures



TIDE INTERNATIONAL USA INC.

21 HUBBLE, IRVINE, CA 92618, USA • Tel: 1-949-679-3535 • Fax: 1-949-679-3538

August 4, 2008

To Whom It May Concern:

RE: Letter of Authorization

Dear Sir or Madam:

Please let this letter serve to confirm that Pyxis Regulatory Consulting, Inc. is authorized to act as agents for Tide International USA, Inc. (EPA Company Number 84229), before the U.S. Environmental Protection Agency and state governmental agencies in all matters regarding our pesticide registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. § 136 et seq. and state law.

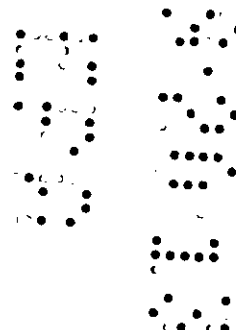
If you have any questions, please do not hesitate to contact me.

Sincerely,



Der-I Wang, Ph.D.
Vice President

cc: Pyxis Regulatory Consulting, Inc.





United States
Environmental Protection Agency
Washington, DC 20460

☒ Registration
☐ Amendment
☐ Other

OPP Identifier Number

Application for Pesticide - Section I

| | | |
|--|--|---|
| 1. Company/Product Number 84229- | 2. EPA Product Manager K. Montague | 3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name) Tide International USA, Inc./ Tide Hexazinone Technical | PM# 23 | |
| 5. Name and Address of Applicant (Include ZIP Code) Tide International USA, Inc. c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address | 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. 352-399 Product Name DuPont Hexazinone Technical | |

Section - II

| | |
|--|--|
| <input type="checkbox"/> Amendment - Explain below. | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input checked="" type="checkbox"/> "Me Too" Application. |
| <input type="checkbox"/> Notification - Explain below. | <input type="checkbox"/> Other - Explain below. |

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

This application falls under Category R333 (52: New manufacturing-use product). The fee of \$17,993 has been paid. This application is linked to the secondary application for registration of Tide Hexazinone 75 WDG.

Section - III

| | | | | | |
|--|--|---|--|--|---|
| 1. Material This Product Will Be Packaged In: | | | | 2. Type of Container | |
| Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | <input type="checkbox"/> Metal | |
| | | | | <input type="checkbox"/> Plastic | |
| | | | | <input type="checkbox"/> Glass | |
| | | | | <input type="checkbox"/> Paper | |
| | | | | <input checked="" type="checkbox"/> Other (Specify) | lined fiber drum or foil lined plastic bags |
| * Certification must be submitted | | | | | |
| 3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container | | 4. Size(s) Retail Container 33.07, 44.09, 200 lbs (15, 25, 90.72) | | 5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product | |
| 6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled | | | | <input type="checkbox"/> Other _____ | |

Section - IV

| | | |
|---|--------------------|---|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) | | |
| Name Ann Tillman | Title Agent | Telephone No. (Include Area Code) (253) 853-7369 |
| Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. | | Date Application Received (Stamped) |
| 2. Signature | 3. Title Agent | |
| 4. Typed Name Ann Tillman | 5. Date 9/19/13 | |



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401 M Street, S.W.
WASHINGTON, D.C. 20460

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Certification with Respect to Citation of Data

| | |
|--|---|
| Applicant's/Registrant's Name, Address, and Telephone Number Tide International USA, Inc. c/o Pyxis Regulatory Consulting 4110 136th St. NW Gig Harbor, WA 98332 253-853-3111 | EPA Registration Number/File Symbol 84229- |
| Active Ingredient(s) and/or representative test compound(s) Hexazinone | Date 9/19/13 |
| General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) TGAJ | Product Name Tide Hexazinone Technical |

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

☒ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☒ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (f) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.


| | | |
|------------------------------------|-----------------|--|
| Signature <i>Ann M. Tillman</i> | Date 9/19/13 | Typed or Printed Name and Title Ann M. Tillman, Agent |
|------------------------------------|-----------------|--|

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DATA MATRIX


| | | | | | |
|--|---|----------------------------------|--|-------------------|---------------------------|
| Date September 19, 2013 | | | EPA Reg. No./File Symbol 84229- | | Page 1 of 4 |
| Applicant's/Registrant's Name & Address Tide International USA, Inc. 21 Hubble Irvine, CA 92618 | | | Product Tide Hexazinone Technical | | |
| Ingredient Hexazinone (CAS No. 51235-04-2) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| Product Specific Data Requirements | | | | | |
| 830.1550 | Product Identity and Composition | Volume 1 | Tide International USA, Inc. | OWN | |
| 830.1600 | Description of Materials Used to Produce the Product | Volume 1 | Tide International USA, Inc. | OWN | |
| 830.1620 | Description of Production Process | Volume 1 | Tide International USA, Inc. | OWN | |
| 830.1650 | Description of Formulation Process | | | | Not required ¹ |
| 830.1670 | Discussion of Formation of Impurities | Volume 1 | Tide International USA, Inc. | OWN | |
| 830.1700 | Preliminary Analysis | Volume 2 | Tide International USA, Inc. | OWN | |
| 830.1750 | Certified Limits | Volume 1 | Tide International USA, Inc. | OWN | |
| 830.1800 | Enforcement Analytical Method | Volume 1 Volume 2 Volume 3 | Tide International USA, Inc. Tide International USA, Inc. Tide International USA, Inc. | OWN OWN OWN | |
| 830.6302 | Color | Volume 4 | Tide International USA, Inc. | OWN | |
| 830.6303 | Physical State | Volume 5 | Tide International USA, Inc. | OWN | |
| 830.6304 | Odor | Volume 6 | Tide International USA, Inc. | OWN | |
| 830.6313 | Stability to Normal and Elevated Temperatures, Metals, and Metal Ions | Volume 7 | Tide International USA, Inc. | OWN | |
| 830.6314 | Oxidation/Reduction: Chemical Incompatibility | Volume 8 | Tide International USA, Inc. | OWN | |
| Signature  | | | Name and Title Ann M. Tillman, Consultant | | Date Sept. 19, 2013 |

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| Date September 19, 2013 | | | EPA Reg. No./File Symbol 84229- | | Page 2 of 4 |
| Applicant's/Registrant's Name & Address Tide International USA, Inc. 21 Hubble Irvine, CA 92618 | | | Product Tide Hexazinone Technical | | |
| Ingredient Hexazinone (CAS No. 51235-04-2) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 830.6315 | Flammability | Volume 15 | Tide International USA, Inc. | OWN | Waiver ² |
| 830.6316 | Explosibility | Volume 15 | Tide International USA, Inc. | OWN | Waiver ³ |
| 830.6317 | Storage Stability | Volume 15 | Tide International USA, Inc. | OWN | PRN 92-5 ⁴ |
| 830.6319 | Miscibility | | | | Not required ⁵ |
| 830.6320 | Corrosion Characteristics | Volume 15 | Tide International USA, Inc. | OWN | PRN 92-5 ⁴ |
| 830.6321 | Dielectric Breakdown Voltage | | | | Not required ⁶ |
| 830.7000 | pH | Volume 9 | Tide International USA, Inc. | OWN | |
| 830.7050 | UV/Visible Absorption | Volume 10 | Tide International USA, Inc. | OWN | |
| 830.7100 | Viscosity | Volume 15 | Tide International USA, Inc. | OWN | Waiver ⁷ |
| 830.7200 | Melting Point/Melting Range | Volume 11 | Tide International USA, Inc. | OWN | |
| 830.7220 | Boiling Point/Boiling Range | Volume 15 | | | Not required ⁸ |
| 830.7300 | Density/Relative Density/Bulk Density | Volume 12 | Tide International USA, Inc. | OWN | |
| 830.7370 | Dissociation Constants in Water | Volume 15 | Tide International USA, Inc. | PL | |
| 830.7520 | Particle Size, fiber length, and diameter, distribution | Volume 15 | Tide International USA, Inc. | OWN | Waiver ⁹ |
| 830.7550 | Partition Coefficient (n-octanol/water), Shake Flask Method | Volume 15 | Tide International USA, Inc. | PL | |
| Signature  | | | Name and Title Ann M. Tillman, Consultant | | Date Sept. 19, 2013 |

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| Date September 19, 2013 | | EPA Reg. No./File Symbol 84229- | | Page 3 of 4 | |
| Applicant's/Registrant's Name & Address Tide International USA, Inc. 21 Hubble Irvine, CA 92618 | | Product Tide Hexazinone Technical | | | |
| Ingredient Hexazinone (CAS No. 51235-04-2) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 830.7560 | Partition Coefficient (n-octanol/water), Generator Column Method | | | | See 830.7560 |
| 830.7570 | Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography | | | | See 830.7560 |
| 830.7840 | Water Solubility: Column Elution Method; Shake Flask Method | Volume 13 Volume 14 | Tide International USA, Inc. Tide International USA, Inc. | OWN OWN | |
| 830.7860 | Water Solubility, Generator Column Method | | | | See 830.7840 |
| 830.7950 | Vapor Pressure | Volume 15 | Tide International USA, Inc. | PL | |
| 870.1100 | Acute Oral Toxicity: Rat | Volume 16 | Tide International USA, Inc. | OWN | |
| 870.1200 | Acute Dermal Toxicity: Rat | Volume 17 | Tide International USA, Inc. | OWN | |
| 870.1300 | Acute Inhalation Toxicity: Rat | Volume 18 | Tide International USA, Inc. | OWN | |
| 870.2400 | Primary Eye Irritation: Rabbit | Volume 19 | Tide International USA, Inc. | OWN | |
| 870.2500 | Primary Dermal Irritation | Volume 20 | Tide International USA, Inc. | OWN | |
| 870.2600 | Dermal Sensitization | Volume 21 | Tide International USA, Inc. | OWN | |
| Generic Data Requirements | | | | | |
| Tide International USA, Inc. will make offers-to-pay to the following companies on the April 8, 2013 Data Submitters List for Hexazinone | | | | | |
| | | Cite-All | Nufarm Americas Inc. | PAY | |
| Signature  | | | Name and Title Ann M. Tillman, Consultant | | Date Sept. 19, 2013 |

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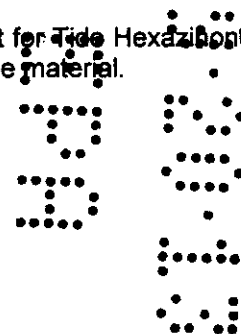
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|--|----------------------|--------------------------------------|--|-------------|---------------------------|
| Date September 19, 2013 | | EPA Reg. No./File Symbol 84229- | | Page 4 of 4 | |
| Applicant's/Registrant's Name & Address Tide International USA, Inc. 21 Hubble Irvine, CA 92618 | | Product Tide Hexazinone Technical | | | |
| Ingredient Hexazinone (CAS No. 51235-04-2) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| | | Cite-All | FMC Corp Agricultural Products Group | PAY | |
| | | Cite-All | E. I. DuPont de Nemours and Co. | PAY | |
| | | Cite-All | Helena Chemical Co. | PAY | |
| | | Cite-All | Makhteshim Agan of North America, Inc. | PAY | |
| | | Cite-All | Spray Drift Task Force | OWN | See endnote ¹⁰ |
| | | Cite-All | Outdoor Residential Exposure Task Force LLC | OWN | See endnote ¹⁰ |
| | | Cite-All | Agricultural Reentry Task Force | OWN | See endnote ¹⁰ |
| | | Cite-All | FIFRA Endangered Species Task Force LLC | PAY | |
| | | Cite-All | Agricultural Handlers Exposure Task Force | OWN | See endnote ¹⁰ |
| | | Cite-All | Alligare, LLC | PAY | |
| | | Cite-All | Celsius Property B.V. Amsterdam | PAY | |
| Signature  | | | Name and Title Ann M. Tillman, Consultant | | Date Sept. 19, 2013 |

Endnotes for Data Matrix for Tide Hexazinone Technical

- ¹ **830.1650** - These data are not required for the registration of a technical product. See 830.1620 for production process information.
- ² **830.6315** - Tide International requests a waiver from this data requirement because Tide Hexazinone Technical is a solid and is not expected to be flammable.
- ³ **830.6316** - Tide International requests a waiver from this data requirement because hexazinone does not have the chemical bonds or functional groups associated with explosive chemicals.
- ⁴ **830.6317 and 830.6320** - Per PR Notice 92-5, storage stability and corrosion characteristics data are not required to be submitted unless specifically requested by the Agency. Tide International USA, Inc. has initiated these studies and will submit the final reports if required when the studies are completed.
- ⁵ **830.6319** - This data requirement is required when the MUP is an emulsifiable liquid and to be diluted with petroleum solvents. Tide Hexazinone Technical is a technical solid that is not to be diluted with petroleum solvents. This data requirement is not applicable.
- ⁶ **830.6321** - These data are not required unless the product is an end-use product. Tide Hexazinone Technical is a technical grade material and this data requirement is not applicable.
- ⁷ **830.7100** - These data are required when the product is a liquid. Tide Hexazinone Technical is a solid. Therefore, this data requirement is not applicable to Tide Hexazinone Technical.
- ⁸ **830.7220** - Boiling point data are only required for liquids. Tide Hexazinone Technical is a solid. Therefore, this data requirement is not applicable to Tide Hexazinone Technical.
- ⁹ **830.7520** - Tide International USA Inc. requests a waiver for this data requirement for Tide Hexazinone Technical because hexazinone is not a fibrous material and is not a water-insoluble material.
- ¹⁰ Tide International USA, Inc. is a member in good standing with this task force.





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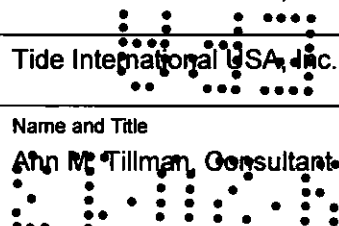
| | | | | | |
|--|----------------------|--------------------------------------|--|-------------|---------------------------|
| Date September 19, 2013 | | EPA Reg. No./File Symbol 84229- | | Page 1 of 4 | |
| Applicant's/Registrant's Name & Address Tide International USA, Inc. 21 Hubble Irvine, CA 92618 | | Product Tide Hexazinone Technical | | | |
| Ingredient Hexazinone (CAS No. 51235-04-2) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|  | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | | | Not required ¹ |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
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| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| Signature  | | | Name and Title Ann M. Tulin, Consultant | | Date Sept. 19, 2013 |

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|--|----------------------|--------------------------------------|---|-------------|---------------------------|
| Date September 19, 2013 | | EPA Reg. No./File Symbol 84229- | | Page 2 of 4 | |
| Applicant's/Registrant's Name & Address Tide International USA, Inc. 21 Hubble Irvine, CA 92618 | | Product Tide Hexazinone Technical | | | |
| Ingredient Hexazinone (CAS No. 51235-04-2) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| | | | Tide International USA, Inc. | OWN | Waiver ² |
| | | | Tide International USA, Inc. | OWN | Waiver ³ |
| | | | Tide International USA, Inc. | OWN | PRN 92-5 ⁴ |
| | | | | | Not required ⁵ |
| | | | Tide International USA, Inc. | OWN | PRN 92-5 ⁴ |
| | | | | | Not required ⁶ |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | Waiver ⁷ |
| | | | Tide International USA, Inc. | OWN | |
| | | | | | Not required ⁸ |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | PL | |
| | | | Tide International USA, Inc. | OWN | Waiver ⁹ |
| | | | Tide International USA, Inc. | PL | |
| Signature  | | | Name and Title Ann M. Tillman, Consultant  | | Date Sept. 19, 2013 |

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|--|----------------------|--|--|-------------|------------------------|
| Date September 19, 2013 | | EPA Reg. No./File Symbol 84229- | | Page 3 of 4 | |
| Applicant's/Registrant's Name & Address Tide International USA, Inc. 21 Hubble Irvine, CA 92618 | | Product Tide Hexazinone Technical | | | |
| Ingredient Hexazinone (CAS No. 51235-04-2) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| | | | | | See 830.7560 |
| | | | | | See 830.7560 |
| | | | Tide International USA, Inc. Tide International USA, Inc. | OWN OWN | |
| | | | | | See 830.7840 |
| | | | Tide International USA, Inc. | PL | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | Tide International USA, Inc. | OWN | |
| | | | | | |
| | | | | | |
| | | | Nufarm Americas Inc. | PAY | |
| Signature  | | Name and Title Ann M. Tillman, Consultant | | | Date Sept. 19, 2013 |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

| | | | | | |
|--|----------------------|--------------------------------------|--|-------------|---------------------------|
| Date September 19, 2013 | | EPA Reg. No./File Symbol 84229- | | Page 4 of 4 | |
| Applicant's/Registrant's Name & Address Tide International USA, Inc. 21 Hubble Irvine, CA 92618 | | Product Tide Hexazinone Technical | | | |
| Ingredient Hexazinone (CAS No. 51235-04-2) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| | | | FMC Corp Agricultural Products Group | PAY | |
| | | | E. I. DuPont de Nemours and Co. | PAY | |
| | | | Helena Chemical Co. | PAY | |
| | | | Makhteshim Agan of North America, Inc. | PAY | |
| | | | Spray Drift Task Force | OWN | See endnote ¹⁰ |
| | | | Outdoor Residential Exposure Task Force LLC | OWN | See endnote ¹⁰ |
| | | | Agricultural Reentry Task Force | OWN | See endnote ¹⁰ |
| | | | FIFRA Endangered Species Task Force LLC | PAY | |
| | | | Agricultural Handlers Exposure Task Force | OWN | See endnote ¹⁰ |
| | | | Alligare, L.L.C. | PAY | |
| | | | Celsius Property B.V. Amsterdam | PAY | |
| Signature  | | | Name and Title Ann M. Tillman, Consultant | | Date Sept. 19, 2013 |

Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

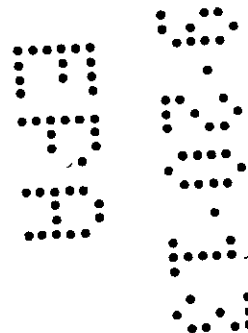
| PROPOSED LABEL | | |
|--------------------|-----------------------|---|
| EPA Registration # | Date Submitted to EPA | Electronic file name |
| 084229-xxxxx | Sept. 19, 2013 | 084229-xxxxx.20130919.Tide Hexazinone Technical.Label.pdf |

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.



Signature
Ann M. Tillman
Agent, Tide International USA Inc.

Sept. 19, 2013
Date



There is an **ELECTRONIC LABEL** for this action

You can use Acrobat to compare the e-label to the previous version (and find the changes). You can also use Acrobat to mark-up the e-label with your comments.

If e-label was submitted via

CD-ROM with paper application

then you will find e-label in

Electronic Label Library

If the e-label is not found in the ELL, then it was probably not named correctly and could not be entered into the ELL. However, the file can be retrieved from the CD which is retained by the Front End.

or

If e-label was submitted via

XML E-Submission (no paper)

then you will find e-label in

Documentum

See overview of processing e-labels on other side of this sheet.

If you have any questions on e-labels, please contact one of your division e-label experts:

| | | |
|------|---------------|----------|
| AD | Willie Abney | 308-1689 |
| | Rena Whitaker | 308-7003 |
| | Tracy Lantz | 308-6415 |
| BPPD | | |
| RD | Tom Harris | 308-9423 |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

September 26, 2013

**OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION**

PYXIS REGULATORY CONSULTING, INC
TIDE INTERNATIONAL, USA, INC.
4110 136TH ST. NW
GIG HARBOR, WA 98332

Report of Analysis for Compliance with PR Notice 11-03

Thank you for your submittal of 20-SEP-13. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 11-03. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

Receipt for Section 3

S: 841456

Resubmission: ☐ Yes ☒ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☒ Yes ☐ No

Application Type: New Registration

Billable: ☒ Yes ☐ No

Company: 84229 TIDE INTERNATIONAL, USA, INC.

V

Risk Manager: Registration Division, Risk Management Team 23

Product #: 84229-GR Product Name: TIDE HEXAZINONE TECHNICAL

Override#:

Me Too Section3: 352-399 Me Too Product Name: DUPONT HEXAZINONE TECHNICAL

Application Date: 19-Sep-2013

OPP Rec'vd Date: 20-Sep-2013

Front End Date: 20-Sep-2013

Risk Manager Send Date:

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐ New Ingredient: ☐

Receipt Description: Application to register a new product

New Ingredient Request Date:

Form A: ☐ Signature Date:

Form B: ☐ Signature Date:

View/Edit

Study CSF

Print Letter

Enter More Information

Tracking

21-Day Screen Completed by
Contractor

21-Day Expires on 10/11/13

Jacket # 84229-GR
MRID# 492199

Content Screen: Recommend to Pass/Fail

11-3 Review: Pass/Fail/NA

Overall Status: Recommend to Pass/Fail

Transfer This Jacket to:

Steve Schauble

PRIA 3 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

September 2012

21 Day Screen Start Date: 9-20-13

Experts In-Processing Signature: B.B.

Date 9-24-13

Fee Paid: Yes ☒

Division management contacted on issues No ☐ Yes ☐ Date _____

| EPA Reg. Number: <u>84229-GR</u> | | EPA Receipt Date: <u>9-20-13</u> | | | | |
|----------------------------------|--|----------------------------------|----|-----|----|------|
| Items for Review | | | | Yes | No | N/A* |
| 1 | Application Form (EPA Form 8570-1) signed & complete including package type | | | X | | |
| 2 | Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4) | | | X | | |
| | a) All inerts, including fragrances, approved for the proposed uses (see Footnote A) | yes | no | | | |
| | <u>Technical product</u> | | | | | |
| | | | | | | |
| 3 | Certification with Respect to Citation of Data (EPA Form 8570-34) completed and signed (N/A if 100% repack) | | | X | | |
| | Certificate and data matrix consistent | | | X | | |
| | If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B) | yes | no | | | |
| | | | | | | |
| | If applicable, is there a letter of Authorization for exclusive use only. | | | | | |
| 4 | Formulator's Exemption Statement (EPA Form 8570-27) completed and signed (N/A if source is unregistered or applicant owns the technical) | | | | | X |
| | Data Matrix (EPA Form 8570-35) both internal and external copies (PR 98-5) completed and signed (N/A if 100% repack) | | | X | | |
| 5 | a) Selective Method (Fee category experts use) | yes | no | | | |
| | <u>X</u> | | | | | |
| | b) Cite-All (Fee category experts use) | | | | | |
| | c) Applicant owns all data (Fee category experts use) | | | | | |
| | | | | | | |
| 6 | 5 Copies of Label (Electronic labels on CD are encouraged and guidance is available) | | | X | | |
| 7 | Is the data package consistent with PR Notice 86-5 | | | X | | |
| 8 | Notice of Filing included with petitions | | | | | X |

| | | | | |
|----|--|--|--|---|
| 9 | If applicable for conventional applications, <u>reduced risk rationale</u> | | | X |
| | <u>Required Data</u> and/or data waivers. See Footnote C. | | | |
| 10 | a) List study (or studies) not included with application | | | |

Comments:

* A.I. + % Comp + Category added
 * CSF approved under Technical + impurities.
 * Data Package approved
 * Jacket approved

MRID: 492199
 IK 703-347-8518

* N/A – Not Applicable

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses or have an application pending with the Agency. If an unapproved inert with no application pending with the Agency is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses or have an application pending with the Agency **even if a product is currently registered** by consulting the inert Web site and if the inert is not approved nor has an application pending with the Agency, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch.

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

Unapproved Inerts Identified on CSFs

All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Provide the required information necessary to identify an inert approval application that is pending with the Agency; or
3. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;
4. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R300 or R301), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

September 24, 2013

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

OPP Decision Number: D-483382
EPA File Symbol or Registration Number: 84229-GR
Product Name: TIDE HEXAZINONE TEHNICAL
EPA Receipt Date: 20-Sep-2013
EPA Company Number: 84229
Company Name: TIDE INTERNATIONAL, USA, INC.

ANN M. TILLMAN
PYXIS REGULATORY CONSULTING, INC
TIDE INTERNATIONAL, USA, INC.
4110 136TH ST. NW
GIG HARBOR, WA 98332-

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-2011-3 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R333

NEW PRODUCT;MUP OR END USE PRODUCT WITH UNREGISTERED SOURCE OF THE
ACTIVE INGREDIENT;REQUIRES SCIENCE DATA REVIEW;NEW PHYSICAL FORM;CITE-ALL
OR SELECTIVE DATA CITATION WHERE APPLICANT OWNS ALL REQUIRED DATA;

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at
(703) 308-9362.

Sincerely,

Front End Processing Staff
Information Technology & Resources Management Division

Fee for Service

{9414565~

This package includes the following

☒ New Registration

☐ Amendment

☒ Studies? ☐ Fee Waiver?

☐ volpay % Reduction: _____

for Division

☐ AD

☐ BPPD

☒ RD

Risk Mgr. 23

Receipt No.

S- 941456

EPA File Symbol/Reg. No.

84229-GR

Pin-Punch Date:

9/20/2013

☐ This item is NOT subject to FFS action.

Action Code:

Requested:

R333

Granted:

R333

Amount Due: \$ 17,993⁰⁰

Parent/Child Decisions:

84229-GR

84229-GE

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: Kimmy

Date: 9/23/13

Remarks:

Good 84229-GE

Receipt for Section 3



S: 941456

Resubmission ☐ Yes ☒ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☒ Yes ☐ No

Application Type: New Registration

Billable: ☒ Yes ☐ No

Company: 84229 TIDE INTERNATIONAL, USA, INC.

V

Print Letter

Enter More Information

Tracking

Risk Manager: Registration Division, Risk Management Team 23

Product #: 84229-GR Product Name: TIDE HEXAZINONE TECHNICAL

Override#

Me Too Section3: 352-399

Me Too Product Name: DUPONT HEXAZINONE TECHNICAL

Application Date: 19-Sep-2013

OPP Rec'd Date: 20-Sep-2013

Front End Date: 20-Sep-2013

Risk Manager Send Date:

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track ☐

New Ingredient ☐

Receipt Description:

Application to register a new product

New Ingredient

Request Date

New Ingredient

Received Date

Form A ☐

Signature Date

Form B ☐

Signature Date

Receipt Content

Study

CSF

View/Edit

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

September 19, 2013

BY COURIER DELIVERY

U.S. Bank
Government Lockbox 979074
1005 Convention Plaza
SL-MO-C2-GL
St. Louis, MO 63197

RE: Tide International USA, Inc.
Tide Hexazinone Technical (EPA Reg. No. 84229-)
Application for New Pesticide Registration
PRIA Category R333

Sir or Madam:

On behalf of Tide International USA, Inc., we are submitting the PRIA payment for the above application for registration of Tide Hexazinone Technical (EPA Reg. No. 84229-). The certified check in the amount of \$17,993 is enclosed along with a copy of the letter submitted with the application for registration.

You may contact me at (253) 853-7369 or by email at Ann@PyxisRC.com.

Sincerely,



Ann M. Tillman

Enclosures

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

September 19, 2013

OVERNIGHT DELIVERY

Kathryn V. Montague (PM 23)
Document Processing Desk (REGFEE)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Dear Ms. Montague,

RE: Tide International USA, Inc.
Tide Hexazinone Technical (EPA Reg. No. 84229-)
Application for New Pesticide Registration
PRIA Category R333

On behalf of Tide International USA, Inc., we are submitting an application for registration of Tide Hexazinone Technical. This application for registration is linked to a secondary application (Tide Hexazinone 75 WDG). In support of this application, we submit the following documents:

1. Application for a New Pesticide Registration (EPA Form 8570-1)
2. Confidential Statement of Formula (EPA Form 8570-4) for Basic Formulation
3. Three (3) Copies of the Proposed Labeling
4. A CD containing an electronic version of the label
5. Certification with Respect to Label Integrity
6. Certification with Respect to Citation of Data (EPA Form 8570-34)
7. Agency Internal Use Copy of the Data Matrix
8. Public File Copy of the Data Matrix
9. Copy of PRIA payment
10. Letter of Authorization
11. Product Specific Data (3 copies of each report)

| | | |
|----------|--|---|
| Volume 1 | 830.1550, 830.1600, 830.1620, 830.1670, 830.1750, 830.1800 | Tillman, A.M. and Z. Xiangfei. Product Identity and Composition, Description of the Materials Used, Description of the Production Process, Discussion of the Formation of Impurities, Certified Limits and Enforcement Analytical Method for Tide Hexazinone Technical. <i>Contains Confidential Business Information</i> |
| Volume 2 | 830.1700, 830.1800 | Tillman, A. M. Compilation Report: 5-Batch Analysis of Hexazinone 98% Tech and Validation of Analytical Methods, Determination of IR, UV/VIS-Absorption and Mass-Spectra. <i>Contains Confidential Business Information</i> |
| Volume 3 | 830.1800 | Marne, S. K. Validation of Analytical Method for Hexazinone. |
| Volume 4 | 830.6302 | Waghade, D. B. Determination of Colour of Hexazinone Technical. |
| Volume 5 | 830.6303 | Waghade, D. B. Determination of Physical State of Hexazinone Technical. |
| Volume 6 | 830.6304 | Waghade, D. B. Determination of Odour of Hexazinone Technical. |

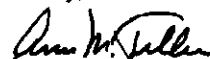
K. Montague
September 19, 2013
Page 2 of 2

| | | |
|-----------|---|--|
| Volume 7 | 830.6313 | Karambelkar, N. P. Determination of Storage Stability of Hexazinone Technical to Normal and Elevated Temperature, Metals and Metal Ions. |
| Volume 8 | 830.6314 | Karambelkar, N. P. Determination of Oxidizing/Reducing Properties of Hexazinone Technical. |
| Volume 9 | 830.7000 | Waghade, D. B. Determination of pH of Hexazinone Technical. |
| Volume 10 | 830.7050 | Marne, S. K. Determination of UV-Visible Spectra of Hexazinone Technical. |
| Volume 11 | 830.7200 | Marne, S. K. Determination of Melting Point/Melting Range of Hexazinone Technical. |
| Volume 12 | 830.7300 | Waghade, D. B. Determination of Density of Hexazinone Technical. |
| Volume 13 | 830.7840 | Karambelkar, N. P. Determination of Solubility of Hexazinone Technical in Water. |
| Volume 14 | 830.7840 | Karambelkar, N. P. Determination of Solubility of Hexazinone Technical in Organic Solvents. |
| Volume 15 | 830.6315, 830.6316, 830.6317, 830.6319, 830.6320, 830.6321, 830.7100, 830.7220, 830.7370, 830.7520, 830.7550-7570, 830.7950 | Tillman, A. M. Tide Hexazinone Technical: Physical and Chemical Properties and Waiver Requests. |
| Volume 16 | OECD 425 | Dhokale, C. S. Acute Oral Toxicity Study of Hexazinone Technical in Rat. |
| Volume 17 | OECD 402 | Dhokale, C. S. Acute Dermal Toxicity Study of Hexazinone Technical in Rat. |
| Volume 18 | OECD 403 | Patil, J. J. Acute Inhalation Toxicity Study of Hexazinone Technical in Rat. |
| Volume 19 | OECD 405 | Kale, M. B. Acute Eye Irritation/Corrosion Test of Hexazinone Technical in Rabbit. |
| Volume 20 | OECD 404 | Kale, M. B. Acute Dermal Irritation/Corrosion Test of Hexazinone Technical in Rabbit. |
| Volume 21 | OECD 406 | Pachpute, P. R. Skin Sensitization Study (Buehler Test) of Hexazinone Technical in Guinea Pigs. |

Tide International USA, Inc. is using the cite-all method of data support. As per EPA's interpretations of 40 CFR Parts 152.86(b)(2)(i) and 152.93(b)(2)(i), Tide International USA, Inc. submitted notices of intent to apply and offers to pay to all companies on the April 8, 2013 Data Submitter's List. This action falls under PRLA category R333 (52: New manufacturing-use product). The fee for this action is \$17,993 and has been paid.

Please contact me ((253) 853-7369, Ann@PyxisRC.com) if you have any questions or need any additional information.

Sincerely,



Ann M. Tillman

Enclosures

Commercial/financial information may be entitled to confidential treatment

TIDE INTERNATIONAL USA INC.
21 HUBBLE
IRVINE, CA 92618

16-395/1222

2002

PAY TO
THE ORDER OF

USEPA

DATE

4/18/2013

\$ 17,993

Seventeen thousand nine hundred ninety three

DOLLARS



Security Features
Included
Complete on Back

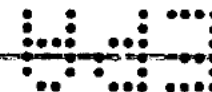


CATHAY BANK

15323 OLIVER DRIVE
IRVINE, CALIFORNIA 92604 1-800-822-8429

MEMO

Tide Hexazinone Tech PRIA Pmt



SPECIALTY PAPER

Completion of 21-Day Content Screen

PM- 23

EPA Reg. # (File Symbol) 84229-GR

Decision # D 483382

Data package delivered to
you on 10/23/13.
(date)

Jacket/Mini-jacket will be
transferred to you today.
(Pick up from Document Center)

Thank you, 

Registration Division's 21-Day Content Team

Memorandum

Date: 9/27/13

To: PM 23, Regulatory Manager

From: Information Services Branch, ITRMD

Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.

We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.

If you have any questions about this process, please contact Teresa Downs (305-5363).

This is a: ☒ fully accepted submission
☐ partially accepted submission
☐ rejected submission

